





OUR PRODUCTS

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UPS REC INV

We Supply Energy to Your Work

ESISPOWER has been setup in 2000 with the purpose of providing High Quality and Customized solutions to her Customers under Management of three Engineers who had more than 20 years professional background in Power Electronic sector.

The production adventure of **ESISPOWER** starting in 2000 by producing Inverter and Rectifier systems, has been developed by her own Research and Development department and made **ESISPOWER** is **ONE OF THE 3 BIGGEST MANUFACTURER** of TURKEY in Power Electronic sector today.

The main product portfolio of ESISPOWER today consist of;

- Uninterruptible Power Supply system's up to 800KVA
- On-Grid and Off-Grid Inverter systems
- Rectifiers / Battery Chargers
- Frequency Converters
- Servo and Static type Voltage Stabilizers
- Batteries

As a REAL MANUFACTURER, **ESISPOWER** does not only provide High Quality products but also provide Engineering Solutions for her Customers in Domestic and International area. This capability makes **ESISPOWER** is one of the main Engineering Solution supplier of International Contractor Companies like **SIEMENS** (Turkey, Saudi Arabia and Pakistan) **ABB** etc.

Presently, **ESISPOWER** continue to provide her Products, Engineering Solutions and After Sales Service for the Customers in more than 40 Countries all over the World through her Business partners.

The main philosophy of **ESISPOWER** is to provide her products and service to create additional values first for her Customers and Business partners by always considering the ethical principles and rights of her competitors in Business area.

ESISPOWER would be always proud of being a part of your happiness and life today and in future.

ESISPOWER















Pre-Sales Services

ESISPOWER's pre-sales service solutions are developed to welcome every customer's specific support requirements by providing local customers with access to certified technical staff support to make all imperative pre-sales inspections and metage to identify the actual product and power requirement of the customers. All these processes in foreign market are carried out by the help of local service points or remote technical inspections & interviews via technical and language skilled sales staff to take all obligatory detailed information. After evaluations in accordance with all these data reports collected in relevant departments, the most proper and economical solutions are offered.

After Sales Services

Device Technical Support provides customers with worldwide access around the daytime to ESISPOWER's support specialists by some amount of phone lines. Where ESISPOWER has network of service organization provides local on-site support and access to spare part for installation, commissioning or maintenance. In the absence of any local service point, ESISPOWER maintains these services by means of both remote redirections with the aid of technical documents and means of technical trainings to the technical staff of customers. In the event of all these applications are unproductive, ESISPOWER orientates its experienced experts fully equipped with all necessary spare parts, to the customer to service for on-time solutions.





















Our Vision

ESIS aims to be a well-known company all over the world in the power electronic sector. We intend to add value to our country and employees increasing export revenues. ESIS wants to be a followed company with our all devices. To create exciting new electronic power equipments for consumers by bringing together the most quality technologic equipments with experience and trained staff. At ESISPOWER our philosophy is simple-Choice, Value and Service. We believe that you should be able to choose from an extensive off the diverse product range, be able to buy at the most competitive prices and enjoy a professional and efficient service on every order.

Our Mission

To provide reliable and continuous basis all kinds of electronic power supply to our customers with after sales services as well as to be satisfied. ESISPOWER is committed to developing a wide range of innovative products and services that challenge the way consumer's access and enjoy electronic power supply products. By ensuring synergy between businesses within the organization, ESISPOWER is constantly striving to create exciting new worlds of Electronic power supplies that can be experienced on a variety of different products. Our ultimate aim is to be a one-stop-shop for all your power supply needs. In order to achieve this, we take pride in being able to offer our customers a very diverse range of products to give you as much to choose from as possible.

UPS REC INV

Company Certifications



СИСТЕМА СЕРТИФИКАЦИИ ГОСТ Р ФЕДЕРАЛЬНОЕ АГЕНТСТВО ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ СЕРТИФИКАТ СООТВЕТСТВИЯ PG № POCC TR.XII28.B04441 № РОССТЯ.ХЦ28.3000000 Срок действия с 08.04.2011 по 07.04.2014 № 0565295 ОРГАН ПО СЕРТИФИКАЦИИ рег. № РОСС RU.0001.11XI128. ОРГАН ПО СЕРТИФИКАЦИИ ПРОДУКЦИИ "ПРОМСЕРТ". 119421, г. Москва, ул. Новаторов, д. 36/3, оф.42, тел. 8(495)721-38-31, info@org-promsert.ru. ПРОДУКЦИЯ Источники для бесперебойного питания т.м. «ESISPOWER», модели (см. приложение на Глисте, бланк № 0317504). Серийный витуск. 40 2500 СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ ГОСТ Р ИЭК 609501-2005; ГОСТ Р 53362-2009; ГОСТ Р 51318:22-2006; ГОСТ Р 5137-32-2006 (Раз. 67); ГОСТ Р 51317-33-2008 8504 40 900 0 ИЗГОТОВИТЕЛЬ «ESIS ENERJI VE ELEKTRONIK SAN.TIC.A.S». Azpec: Dudullu Org.San.Bol.3.Cd.G/I2S Sk. N:8 Umraniye 34776 Istanbul/Turkiye, Турция. Teaeфон 0090 216 540 90 00, факе 0090 216 540 90 10. СЕРТИФИКАТ ВЫДАН «ESIS ENERJI VE ELEKTRONIK SAN.TIC.A.S». Azpec: Dudullu Org.San.Bol.3.Cd.G/125 Sk. N:8 Umraniye 34776 Istanbul/Turkiye, Турция Телефон 0090 216 540 90 00, факс 0090 216 540 90 10. НА ОСНОВАНИИ протокола сертнфикационных испытаний № 1-147,04-2011 от 07.04.2011г. Испытательная лаборатория ООО "Манипромэксперт", рег. № РОСС R U0001.21MM18 от 23.06.2010, дорест 115035, Москва, ула. Пятиникая, 1521, стр. 2, сортяфиката системы менедамент качества ВО 9001:2008 № 44 100 063733 от 11.01.2007 г. до 10.01.2013 г., выданного ОС "TUV NORD" ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ Место нанесения знака соответствия: знак с по ГОСТ Р 50460-92 наносится на корпус изделия и (вли) в эксплуатационную документ Схема серецф Аля ЕРПОИКАТОВ Эксперт Е.А. Дмитриева еет юридическую силу на всей территории Российской Федераци

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GOST Certificate



Product Certifications



UPS CE Certificate



Frequency Converter EMC



Battery Charger CE Certificate



Frequency Converter LVD



PV Inverter CE Certificate

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Solar Central Inverter LVD



Solar Central Inverter EMC

UPS REC INV

KEY MILESTONES _____

First Electric Vehicle Battery Charger presented to the Market.	2017	
	2016	800 kVA Frequency Converter manufactured and installed. 500 kW On-Grid Solar Central Inverter presented to the Market.
High Efficiency 3L UPS designed and Presented to the Market	2015	
	2014	Parallel UPS designed and Presented to the Market.
On-Grid PV string inverter presented to Market between 10 and 30 kW	2013	
	2012	3 Patents for UPS, Rectifier and Solar Inverter was registered. First Mobile UPS sold to Military Forces
First Solar Inverter designed and installed at our Premises	2011	
	2010	3 Phases ATLAS5000 UPS Manufactured and presented to Market ISO 14001 Certification
Designed 3 Phases Frequency Converter and funded by Government	2009	
	2008	First Mono Phase modular UPS manufactured.
Exporting Started.1 st R&D Project accepted by Government and start funding	2007	
	2006	EGE series single phase UPS's are in the market.
First Rectifier designed and presented to market. First Sale to Military Defense Sector.	2005	
	2004	First Inverter designed and presented to market.
R&D Department established.	2003	
	2002	Distributor Company of Tripplite / USA. ISO 9001 Certification.
Established by 3 Engineers in Istanbul.	2000	





Our Patents _

		UPS PATENT						
APPLICATION INFORMATION								
Application Number : 2012/06963	Filed	: 2012-G-203864	ļ	Publication No	: 2012 06963			
Application Date : 2012/06/14	Filed Date	: 2012/06/14		Publication Date	: 2014/09/22			
Application Type : National	Protection Type	: Patent		Issue Date	: 2013/08/22			
APPLICANTS		PUBLICATION CLASSIFICATION						
ESİS ENERJİ VE ELEKTRONİK SANAYİ VE TİCARET ANON Dudullu Organize Sanayi Bölgesi Esenkent Mah. Baturalp So	İ M ŞİRKETİ ok. No: 14 ÜMRANİYE	H02J 1/14 H02J 9/06 H02M 3/335						
INVENTORS			ATTORNEY					
Halit ZENGİNCE Dudullu Organize Sanayi Bölgesi Esenkent Mah. Baturalp Sok. N	Io: 14 ÜMRANİYE / İST	ANBUL	TAHNUR YAZICI (DESTEK PATETNT AŞ.) Polaris Plaza Ahi Evran Cad. No:1 Kat:17 D:70 MASLAK / İSTANBUL					
TITTLE OF INVENTION								
Uninterruptible Power Supply								

	RECTI	FIER	PATE	NT
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APPLICATION INFORMATION							
Application Number : 2012/05823	Filed	: 2012-G-167381		Publication No	: 2012 05823		
Application Date : 2012/05/18	Filed Date	: 2012/05/18		Publication Date	: 2015/01/21		
Application Type : National	Protection Type	: Patent		Issue Date	: 2013/12/23		
APPLICANTS		PUBLICATION CLASSIFICATION					
ESİS ENERJİ VE ELEKTRONİK SANAYİ VE TİCARET ANON Dudullu Organize Sanayi Bölgesi Esenkent Mah. Baturalp Su	İM ŞİRKETİ ok. No: 14 ÜMRANİYE	H02J 1/14 H02J 9/06 H02M 3/335					
INVENTORS		·	ATTORNEY				
Halit ZENGİNCE Dudullu Organize Sanayi Bölgesi Esenkent Mah. Baturalp Sok. M	No: 14 ÜMRANİYE / İSTA	IBRAHIM ISKENDER Eclipse Business, Al	R (DESTEK PATENT A kasya Sok. D Blok No	A.Ş.) D:5 MASLAK / İSTANBUL			
TITTLE OF INVENTION							

Serial loaded quasi resonant Rectifier with signal processor controlled

SOLAR INVERTER PATENT

APPLICATION INFORMATION								
Application Number : 2012/04954	Filed	: 2012-G-138511		Publication No	: 2012 04954			
Application Date : 2012/04/27	Filed Date	: 2012/04/27		Publication Date	: 2015/07/21			
Application Type : National	Protection Type	: Patent		Issue Date	: 2013/11/21			
APPLICANTS		PUBLICATION CLASSIFICATION						
ESİS ENERJİ VE ELEKTRONİK SANAYİ VE TİCARET ANON Dudullu Organize Sanayi Bölgesi Esenkent Mah. Baturalp S	İM ŞİRKETİ ok. No: 14 ÜMRANİYE	H02M 7/48						
INVENTORS			ATTORNEY					
Halit ZENGİNCE Dudullu Organize Sanayi Bölgesi Esenkent Mah. Baturalp Sok. I	No: 14 ÜMRANİYE / İST	ESRA TEKİL, YILDIZ (TEKİL ve TEKİL MARKA VE PATENT BROSU LTD. ŞTİ.) Ferit Tek Sok. No:36 Sabur Sami Bey Apt. D:2 34710 Moda KADIKÖY / İSTANBUL						
TITTLE OF INVENTION								
Solar Inverter with conventional IGBT Modules								

DEVICE SELECTION TABLE

UPS SELECTION TABLE

Model	<u>ب</u> چې													P	0 W	ER (kVA)												
mouch	5/12	0,6	1	2	3	5	6	7	10	15	20	30	40	60	80	90	100	120	150	160	500	250	300	400	500	600	800	1040	1560	Page
MAY	1/1	~	~	~																										10
EGE 100K	1/1		~	~	~		~		~																					11-12
EGE 100KR	1/1		~	~	~		~		~																					13-14
ATLAS 100	1/1					~		✓	~	~																				15
EGE 200K	3/1								~	~	~																			16
ATLAS 600	3/1								~	~	~	~																		17
EGE 300K	3/3								~	~	~	~	~																	18
ATLAS 4000	3/3								~	~	~	•	~	~	~		~	~		•	~	•	✓							19-20
ATLAS 5000	3/3								•	✓	~	•	~	•	✓		•	~		~	~	•	~	~	~	~	~			21-22
ATLAS 5000PF	3/3								~	~	~	~	~	~	•		~	~		~	~	~	~	~	~	~	~			23-24
ATLAS 7000	3/3								~	~	~	~	~	~	~		~	~		~	~	~	•							25
MEDI	3/3								~	~				~		~	~		~		~	~	•	~			~	~	•	26-27

RECTIFIER SELECTION TABLE

	BORA SINGLE PHASE MODELS												
V A	10	12	15	20	30	40	50	60	100	Page			
24	1024-10	1024-12	1024-15	1024-20	1024-30	1024-40	1024-50	1024-60	1024-100	29			
48	1048-10	1048-12	1048-15	1048-20	1048-30	1048-40	1048-50	1048-60	1048-100	29			
110	1110-10	1110-12	1110-15	1110-20	1110-30	1110-40	1110-50	1110-60	1110-100	29			

					BOKA I	HKEE PHA	ASE MODE	:LS					
V A	10	30	40	50	60	100	150	200	250	300	400	600	Page
24	3024-10	3024-30	3024-40	3024-50	3024-60	3024-100	3024-150	3024-200	3024-250	3024-300			30
48	3048-10	3048-30	3048-40	3048-50	3048-60	3048-100	3048-150	3048-200	3048-250	3048-300	3048-400	3048-600	30
110	3110-10	3110-30	3110-40	3110-50	3110-60	3110-100	3110-150	3110-200	3110-250	3110-300	3110-400	3110-600	30
220	3220-10	3220-30	3220-40	3220-50	3220-60	3220-100	3220-150	3220-200	3220-250	3220-300			30

POYRAZ													
V A	30	40	50	60	100	150	200	250	300	400	600	Page	
400	400-30	400-40	400-50	400-60	400-100	400-150	400-200	400-250	400-300	400-400	400-600	31	
600	600-30	600-40	600-50	600-60	600-100	600-150	600-200	600-250	600-300	600-400	600-600	31	

INVERTER SELECTION TABLE																				
Model		POWER (kVA)																		
modol	1	1,5	2	2,4	3	4	5	6	8	10	12	15	18	20	30	110	150	250	500	Sayfa
ELIT G														~	✓					33
ELIT C																~	~	~	~	34
ELIT K					~	~	✓	~	✓	✓	✓	~	~	~						35
ELIT M	~		~		~	~	~	~												36

	FREQUENCY CONVERTER SELECTION TABLE																		
Model	POWER (kVA)																		
Mougi	211	10	15	20	30	40	60	80	100	120	160	200	250	300	400	500	600	800	Page
FN 3000	3/3	✓	~	~	v	✓	✓	✓	✓	✓	✓	✓	✓	v					39
FN 5000	3/3	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	40-41



UNINTERRUPTIBLE POWER SUPPLIES (UPS)

The critical loads connected to the grid line (mains) are going to be affected in case of possibly voltage fluctuations, harmonics, short or long mains fails etc. Particularly medical appliances, data processing and security are the sensitive loads such are mostly affected groups.

To avoid this situation, Uninterruptible Power Supply (UPS) has become imperative to use in Industrial, IT and even in home applications.

Through use of UPS you can,

- Feed your loads by clean energy filtering interferences born of mains
- Avoid of voltage and frequency fluctuations
 Dispose of power cut offs as critical loads keep on being fed by UPS

•Extend life-time of your devices protecting against mains fails and mains disorders

UPS is widely used in Computers and computeraided automation and manufacturing systems, medical electronic equipment, hospitals, airport lighting, military radar systems, communications and broadcasting organizations, elevators, electronic doors, Cash registers, emergency lighting and in any field where uninterrupted and high quality energy is needed.

According to the operation mode, UPS's can be categorized as Online, Offline and Line-Interactive. UPS Offline mode is activated only during mains fails. UPS Line-interactive mode transfers energy to the loads purifying mains and waits ready to back your loads up via batteries during energy stoppage. MAY series developed by ESIS for home and office-type applications are used for this purpose. UPS Online mode is permanent turned on ensuring high quality and non-stop feeding for your loads through the UPS. ESIS Online UPSs providing high protection are produced by IGBT and PWM technology available 1-1560 kVA ranges.

MAY



FEATURES

- AVR boost and buck
- Cold start function
- Smart USB interface for power management
- Built-in Self-diagnostic function
- Compatible with generator set (optional)
- LCD Panel
- Fastest charging capacity
- Auto charging at off mode
- Auto-restart function

Line Interactive UPS

May Series Technical Specifications
600 - 2000 VA Line Interactive UPS

Series	MODEL	MAY 600	MAY 1000	MAY 2000						
	Apparent Power (VA)	600	1000	2000						
	Active Power (W)	360	600	1200						
	INPUT									
	Voltage	220/230/240 Vac (1Ph+N+PE)								
	Voltage Tolerance	162-290 Vac								
	Frequency	50/60 Hz								
	Frequency Tolerance	± 10%								
	OUTPUT									
	Voltage	220/2	30/240 Vac (1 Ph + N	+PE)						
	Waveform	Simulated Si	ne Wave at Nominal Vo	$bltage \pm 10\%$						
	Voltage Regulation		±10%							
1	Frequency		50 or 60 Hz							
	Frequency Range (Batt. Mode)		± 1%							
	Transfer Time	Тур	ical 2~6 ms, 10 ms n	nax.						
	Number of Output	2 sockets		4 sockets						
	BATTERY									
	Туре	Maintenance Free Lead Acid Battery								
	Voltage / Ah	12 V /	′ 7 Ah	12 V/ 9 Ah						
	Quantity	1	:	2						
	Charging Time	Reach	es 90% Charge in 6-8	Hours						
	PROTECTION									
	High/Low Voltage	Automati	cally Switches to Batte	ery Mode						
	Overload / Overcharge	Yes								
	COMMUNICATION									
	Interface	USB/RS-232 (optional), Supports Windows®2000/2003/XP/Vista Windows® 7,Linux,Unix and MAC								
	FUNCTION									
	Auto Start	Yes								
	Automatic Charging	Autom	atic Charging When UF	PS OFF						
	Software	Smart USB	Interface for Power M	anagement						
	ENVIRONMENTAL									
	Operating Temperature		0~40°C							
	Relative Humidty		% 0-95							
	Acoustic Noise		<40 dB							
	PHYSICAL									
	Dimenions (WxDxH) mm.	101x298x142	149,3x338x162	158x380x198						
	Product Weight (kg)	4,25	11,50							
	STANDARDS									
onal)	Harmonized Standards	IEC/EN62040-2; IEC61000-4-2; IEC61000-4-4; IEC61000-4-5; IEC61000-4-6; IEC61000-4-8								

ESIS MAY series UPS use Line-Interactive topology and is generally used for home or small office applications. ESIS MAY Series UPS transfer existing network power to load and charge the batteries at same time. When the electric is cut off Inverter will work immediately and load will be fed from the batteries without any interruption. Back up time is standard and cannot be increased by adding new batteries. The batteries inside UPS are maintenance free. They are very silent working. These UPS are microprocessor controlled, fully automatic and easy to use.

EGE 100K

Series



FEATURES

- True double-conversion
- Wide input voltage range (110-300 Vac)
- Input power factor correction 0.99
- Output Power Factor 0.9
- Maximum 12A charger for long-run models
- Charger current can be setting by LCD
- 50Hz/60Hz frequency converter mode • Emergency power off function (EPO)
- Eco mode operation for energy saving (ECO)
- Concreter competible
- Generator compatible
- SNMP / USB / RS232 multiple communications • Smart battery charger design for optimized
- battery performance • Selectable output voltage: 200, 208, 220, 230, 240Vac

1-10 kVA 1 Phase Input - 1 Phase Output (HF) Online UPS MODEL EGE 101K **EGE 101KL** EGE 102K EGE 102KL EGE 103K **EGE 103KI** Rated Power (kVA) 2 3 1 Active Power (kW) 0,9 1,8 2,7 INPUT Rated Voltage 200/208/220/230/240 Vac (1P+N+PE) 125~290±%5@0-60% Rated Load 135~290±%5@60-70% Rated Load Voltage Range 175~290±%5@80-100% Rated Load 155~290±%5@70-80% Rated Load **Operating Frequency Range** 40/70 Hz Power Factor 0,99 OUTPUT 200/208/220/230/240 Vac (1P+N+PE) Rated Voltage Voltage Regulation ±1% Line 47-53 Hz or 57-63 Hz (Synchronized Range) Frequency Battery 50/60±0,1 Hz Waveform Pure Sine Wave Voltage Distortion (THDv) <3% (Linear load); <6% (Non-linear load) **Output Power Factor** 0.9 Crest Factor 3:1 Line Mode 88% 92% Efficiency Battery Mode 85% 86% 87% 88% 89% 90% SYSTEM FEATURES Standalone Tower Type / True Online Double Conversion UPS Type / Technology Transfer AC - Battery 7ero 4 ms (Typical) Time **INV - Bypass** 105%-110%: UPS shuts down after 10 minutes at battery mode or transfer to bypass when the utility is normal Ambient Temp. 110%-130%: UPS shuts down after 1 minutes at battery mode or transfer to bypass when the utility is normal <35 °C Overload >130%:UPS shuts down after 3 seconds at battery mode or transfer to bypass when the utility is normal Capability 40°C< Ambient Temp.<35°C 105%-110%: UPS shuts down after 1 minutes at battery mode or transfer to bypass when the utility is normal >110%:UPS shuts down after 3 seconds at battery mode or transfer to bypass when the utility is normal Short Circuit Hold Whole System Overheat Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately Low Battery Voltage Alarm and Switch Off EPO (optional) Shut down UPS Immediately **Communication Interface** USB (or RS-232), SNMP Card (optional) Relay card (optional) Audible & Visual Alarms Line Failure, Battery Low, Overload, System Fault BATTERY Rated Voltage / Capacity 2x12V/9 Ah 4x12V/9 Ah 6x12V/9 Ah Typical Charge Time 4 Hours to %90 Capacity Charge Voltage 54.7 Vdc±%1 27.4 Vdc±%1 82.1 Vdc±%1 Charge Current 12 A Max 12 A Max 1A 1A 12 A Max 1A ENVIRONMENT **Operating Temperature** 0°C ~ 40 °C Storage Temperature -25°C ~ 55°C **Relative Humidity** < 20-95% @ 0°- 40 °C (non-condensing) Altitute < 1500 m Audible Noise < 50 dBA

Ege 100K Series Technical Specifications

STANDARDS LVD (Safety) IEC/EN 62040-1 / IEC/EN 60950-1 EMC IEC/EN 62040-2/IEC61000-4-2/IEC61000-4-3/IEC61000-4-4/IEC61000-4-5/IEC61000-4-6/IEC61000-4-8 PHYSICAL Dimensions (WxDxH) [mm] 191x460x337 144x399x209 144x293x209 144x399x209 Weight [kg] 9,8 4,1 27,6 7,4 17 6.8

ONLINE UPS

ESIS EGE 100K Series, produced with PWM and IGBT technology provide sinusoidal waveform output and contains advanced communication options. These series are 1 phase input, 1 phase output online UPS. ESIS EGE Series manufactured in different power ranges, are used to supply vital important equipment's such as medical analysis equipment's, operating rooms in hospitals, ultrasound equipment's, security systems, all kinds of automation systems, computer networks and communication systems. Thanks to higher protection providing technology. EGE series protect them from problems of utility failures and irregular voltage.

EGE 100K

Series

	mannanan	
	monoponi	
ESISPOWER	Ŋ,	ESISPOWER

FEATURES

- N+X Parallel Redundancy
- Online Double Conversion with DSP Control
- Input Current Harmonic: <3%
- Optimization Battery Group, the Quantity of Battery: 16/18/20 pieces (optional)
- Output Power Factor is Changed When Selection Different Battery Quantity 16 pcs: 0.7PF; 18pcs:0.8PF; 20pcs:0.9PF
- Wide Input Voltage Range: 120-276Vac
- Wide Input Frequency Range (50Hz: 45-55Hz; 60Hz: 54-66Hz)
- Support Generator Input
- Support Economic (ECO) Operation Mode
- · Self-Testing When UPS Startup
- Options: SNMP Card/Relay Card/ Parallel Board
- Cold start

М	ODEL	EGE 106K	EGE 106KL	EGE 110K	EGE 110KL						
Rated Powe	er (kVA)		6		10						
Active Pow	er (kW)	Ę	5,4		9						
INPUT											
Rated Volta	ge		220/230/240	Vac (1P+N+PE)							
Voltage Ran	ige		120~	-276 Vac							
Operating F	requency Range		50Hz: 45-55Hz: 60Hz: 54-66Hz (Auto Sensing)								
Harmonic D	istortion (THDi)		<3% (100	% Linear Load)							
Power Facto	or	0,99									
Bypass Volt	age Range	Max. Voltage: 220Vac: +25%(optional+10%,+15%,+20%) 230Vac: +20%(optional+10%,+15%) 240Vac: +15%(optional+10%) Min.Voltage: -45% (optional -20%,-30%)									
ECO Range			Same as	the Bypass							
Harmonic D	istortion (THDİ)		<3% (100	% Linear Load)							
Generator Ir	nput			Yes							
OUTPUT			000/000/040								
Rated Voltag	e		220/230/240	Vac (1P+N+PE)							
Voltage Regi	Jation	. 40/		±1%	(Onthing of						
Frequency	Line	±1%/	±2%/4%/±5%/±10	% of the Rated Frequency	Uptional						
Moustann	Battery		50/60 Duro 6	± U, I HZ							
Valtage Diet	artian (TUDu)		Pule 3	$\sim 5\%$ (Non Linear Load)							
Output Power	or Easter		\leq 2% (Linear Luau),								
Crest Factor	1 1 46101			0,9 3·1							
Efficiency			>	93.5%							
SYSTEM I	FATURES										
LIPS Type /	Technology	S	tandalone Tower Type / 1	rue Online Double Conver	sion						
Transfer Tin	ne		Mains to Battery: 0 m	s. Mains to Bypass: O ms.							
Overload	Line Mode	Load≤ 110%: 60mir	ı; ≤125%:10min, ≤150%	:1min,>150% turn to byp	ass mode immediately						
Capability	Bypass Mode	40A	(Breaker)	60A (B	reaker)						
Short Circu	it		Hold WI	nole System							
Overheat		Line Mode	: Switch to Bypass: Back	up Mode: Shut down UPS	immediately						
Low Battery	Voltage		Alarm ar	d Switch Off							
Battery			Advanced Bat	tery Management							
LED & LCD	Display	Line Mode, Batt	Mode, Eco Mode, Bypa	ss Mode, Battery Low, Ove	erload & UPS Fault						
LCD Display	/	Input Voltage, Input Free	quency, Output Voltage, (Inner Temperature & Rer	Dutput Frequency, Load Pe naining Battery Backup Tir	rcentage, Battery Voltage, ne						
Self - Diagn	ostics		Upon Power On a	and Software Control							
Communica	ation Interface	USI	B (RS-232), SNMP card	(optional), Relay card (opt	tional)						
Audible & V	ïsual Alarms		Line Failure, Battery Lo	ow, Overload, System Faul	t						
BATTERY											
Battery Volt	age		±96/108/12	0 Vdc (Optional)							
Capacity			12V/	7Ah/9Ah							
Typical Re-(Charge Time		6-8 Hours (to 9	0% of full capacity)							
Charge Curl	rent	TA(Standard unit); long	run unit max. current Tu	A (can be set according to	battery capacity insalled)						
ENVIRUNI	VIEN I		000	4000							
Operating In	emperature		0.0	~ 40 C							
Delativo Hu	miditu		-23 C	$p \sim 000$							
	multy		0-95% (110	1500m							
	0			55 dBA							
STANDAR	יינ ח <i>פ</i>										
LVD (Safety)		IEC / EN 62040-	1 / IEC / EN 60950-1							
EMC	1	IEC/EN62040-2/IEC 61000-4-2/IEC61000-4-3/IEC61000-4-4/IEC61000-4-5/IEC61000-4-6/IEC61000-4-8									
PHYSICAL		,	,								
Dimensions	(WxDxH) (mm)		250X	502X616							
Weight (kg)	, , , ,	62	18	64	20						

ONLINE UPS

ESIS EGE 100K Series, produced with PWM and IGBT technology provide sinusoidal waveform output and contains advanced communication options. These series are 1 phase input, 1 phase output online UPS. ESIS EGE Series manufactured in different power ranges, are used to supply vital important equipment's such as medical analysis equipment's, operating rooms in hospitals, ultrasound equipment's, security systems, all kinds of automation systems, computer networks and communication systems. Thanks to higher protection providing technology. EGE series protect them from problems of utility failures and irregular voltage.



EGE 100KR

FEATURES

- Rack / Tower Convertible Design
- Mimic LCD Display May be Rotated by Simply Pushing Front Button
- True Online Double Conversion
- High Output Power Factor at 0.9PF
- Comprehensive Display Allows Easy Monitoring and Access of UPS Status
- Smart SNMP works with either USB or RS-232 together
- Hot-Swappable Battery
- Efficiency up to 90%
- Estimated Remaining Time Displayed on the LCD
- Support Economic (ECO) Operation Mode
- Matching Battery Pack
- Optional Powerful Charger
 Cold Start
- Power Shedding May Turn off Uncritical Load In Battery Backup
- Emergency Power Off
- Frequency Converter Mode Is Settable

Ege 100KR Series Technical Specifications

1-10 kVA 1 Phase Input - 1 Phase Output (HF) Rack Type Online UPS

Series	М	ODEL	EGE 101KR	EGE 101KRL	EGE 102KR	EGE 102KRL	EGE 103KR	EGE 103KRL					
	Rated Powe	r (kVA)		1)	3	3					
	Active Powe	er (kW)	0	,9	1,	,8	2,	,7					
	INPUT												
	Rated Powe	r	200/208/220/230/240 Vac (1P+N+PE)										
	Voltage Ran	ide	110~300@0-60% Rated Load 160~300@61-100% Rated Load										
	Operating F	requency Range		50Hz:	45-55Hz 60Hz: 5	54-66Hz (Auto Se	ensing)						
	Power Facto	or	0,99@Nominal Voltage (%100 Load)										
	OUTPUT												
	Rated Volta	ae	200/208/220/230/240 Vac (1P+N+PE)										
	Voltage Reg	ulation	±1%										
		Line	45-55 Hz or 56-64 Hz (Svnchronized Range)										
	Frequency	Battery	50/60±0.1 Hz										
	Waveform		Pure Sine Wave										
	Voltage Dist	tortion (THDv)	<3%(Linear Load);<6% (Non-Linear Load)										
	Power Facto	or											
	Crest Facto	r			3	,s ·1							
		Line Mode	8	8%	80	 9%	909	%					
	Efficiency	Battery Mode	8	3%	85	5%	86	%					
	SYSTEM F	FATURES											
	LIPS Type / T	echnology		Rack M	ount Type / True (Online Double Co	nversion						
	Transfer	AC - Battery			Ze	ro							
	Time	INV - Bypass			4 ms (Typical)							
		RS-232/USB	Supports Windows • 2000/2003XP/2008 Windows 7/8, Linux, FreeBSD and MAC										
	Management	Optional SNMP		Power Mana	ement from SNN	/P Manager and	Web Browser						
	LCD Indicato	irs	Load Lev	vel. Batterv Level.	AC Mode. Battery	v Mode. Bypass I	Mode. and Fault I	ndicators					
	Audible Alarr	ns	Battery Mode, Fault, Overload, Battery Low,										
	BATTERY		Datory mode, rain, orenead, Datory Low,										
	Otendent	Battery Type	2x12	V/9Ah	4x12\	//9 Ah	6x12\	//9 Ah					
	Standart	Recharge Time			4 hours recover	to 90% capacity							
	Model	Charge Current			1.0) A							
	(KR)	Charge Voltage	27.4V	dc±%1	54.7 V	dc±%1	82.1 V	dc±%1					
	Long Back-up	Charge Current	,		6 A/12A (Do	ouble Board)							
	Model (KRL)	Charge Voltage	27.4V	dc±%1	54,7 V	dc±%1	82,1 Vo	dc±%1					
	ENVIRON	VIENT											
	Operating Te	emperature			0°C ~	40 °C							
	Storage Ten	nperature			-25°C -	~ 55°C							
	Relative Hur	nidity		20)-90@0°C - 40°C	C (non-condensin	ig)						
	STANDAR	DS											
	LVD (Safety)	IEC/EN 62040-1/IEC/EN 60950-1										
	EMC	, 	IEC/EN62040-2/IEC61000-4-2/IEC61000-4-3/IEC61000-4-4/IEC61000-4-5/IEC61000-4-6/IEC61000-4-8										
	PHYSICAL												
	Dimensions	Standart KR	440X43	30X86,5	440x552	2x86,5	440x7	10x86,5					
mply	(WxDxH)(mm)	Long KRL	440X43	30X86,5		440x55	52x86,5						
	Weight (kg)	Standart KR	13,9	N/A	20,1	N/A	23,3	N/A					
	weigin (Kg)	Long KRL	8	.2	N/A	10.9	N/A	11.3					

ONLINE UPS

EGE 100KR series online intelligent UPS, adopts DSP all-digital control technology, with more Excellent output index and multi term innovation design, able to provide full protection for high-performance serve, internet equipment telecommunication system, industry process and other key equipment. Tower and Rack Mount conversion function design, greatly improve the UPS adaptability to the Installation modes.

EGE 110KR

10

9

60A (Breaker)

EGE 100KR

Series

MODEL

Operating Frequency Range

Harmonic Distortion (THDi)

Battery

Voltage Distortion (THDv)

SYSTEM FEATURES

UPS Type / Technology

Line Mode

Bypass Mode

Bypass Voltage Range

Rated Power (kVA)

Active Power (kW)

Voltage Range

Power Factor

ECO Range

Generator Input **OUTPUT** Rated Voltage

Voltage Regulation

Frequency

Waveform

Power Factor

Crest Factor

Transfer Time

Overload Capability

Short Circuit

Low Battery Voltage

LED & LCD Display

Self - Diagnostics

EPO (Optional)

Battery Voltage

Charge Current

ENVIRONMENT

Typical Re-Charge Time

Operating Temperature

Storage Temperature

Relative Humidity

Audible Noise

STANDARDS

LVD (Safety)

PHYSICAL

Weight [kg]

Dimensions (WxDxH) [mm]

EMC

Altitute

BATTERY

Communication Interface

LCD Display

Overheat

Batterv

Efficiency

INPUT Rated Voltage

Ege 100KR Series Technical Specifications

EGE 106KR

6

5,4

40A (Breaker)

1-10 kVA 1 Phase Input - 1 Phase Output (HF) Rack Type Online UPS

220/230/240 Vac (1P+N+PE) 120~276 Vac

50 Hz: 45-55 Hz; 60 Hz:54-66 Hz (Auto Sensing)

≥ 0,99 Max. Voltage: 220Vac: +25% (optional +10%,+15%,+20%) 230Vac: +20% (optional +10%,+15%

240Vac: +15% (optional +10%) Min. Voltage: -45% (optional -20%, -30%)

Same as the Bypass <3% (100% Linear load)

Yes

220/230/240 Vac (1P+N+PE) ±2%

 $\pm 1\%/\pm 2\%/\pm 4\%/\pm 5\%/\pm 10\%$ of the Rated Frequency (Optional)

50/60 ± 0,1 Hz

Pure Sine Wave

 \leq 2% (Linear Load); \leq 5% (Non-Linear Load)

0.9

3:1

>93.5%

Rack Type / True Online Double Conversion

Mains to Battery: 0 ms; Mains to Bypass: 0 ms

Load \leq 110%: 60min; \leq 125%: 10min, \leq 150%: 1min, >150% turn to bypass mode immediately

Hold Whole System

Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately

Alarm and Switch Off

Advanced Battery Mangemant

Line Mode, Batt. Mode, Eco Mode, Bypass Mode, Battery Low, Overload & UPS Fault

Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Inner

Temperature & Remaining Battery Backup Time

Upon Power On and Software Control

Paralel Port, USB (or RS-232), SNMP Card (optional), Relay card (optional)

Shut Down UPS Immediately

±96/108/120Vdc (Optional)

6-8 Hours (to 90% of full capacity)

Maximum Current 6A(Standard unit);Long run unit max. current 10A(can be set according to battery capacity installed)

0°C ~ 40 °C

-25°C ~ 55°C

0-95% (Non-Condensing)

< 1500m

< 55 dBA

IEC/EN 62040-1/IEC/EN 60950-1

IEC/EN62040-2/IEC61000-4-2/IEC61000-4-3/IEC61000-4-4/IEC61000-4-5/IEC61000-4-6/IEC61000-4-8

443x580x131 (3U)



FEATURES

- Online-Double conversion
- Non Transfer Time of Output
- PFC Technology
- Full Digital Control (DSP)
- Output Power Factor: 0.9
- Input Current Harmonic < 3%
- ECO Function
- Charging/Rectifier/Inverter Fully Digital Control Technology
- Optimization Battery Group, the Quantity of Battery: 16/18/20 pieces (optional)
- Wide Input Voltage Range: 120-276Vac
- Wide Input Frequency Range: 45-55Hz/54-66 Hz
- Self-Testing When UPS Startup
- Input Over/Under Voltage Protection
- Automatic Bypass
- Cold Start
- Communication Port: RS232, USB
- Options: SNMP Card/ Relay Card

ONLINE UPS

EGE 100KR series online intelligent UPS, adopts DSP all-digital control technology, with more excellent output index and multi term innovation design, able to provide full protection for high-performance serve, internet equipment telecommunication system, industry process and other key equipment. Tower and Rack Mount conversion function design, greatly improve the UPS adaptability to the Installation modes.

ATLAS 100

Series





3-13 KVA I PI	nase input - T i	Phase Output (I						
MODEL	ATLAS 105	ATLAS 107	ATLAS 110	ATLAS 115				
Apparent Power (kVA)	5	7	10	15				
Active Power (kW)	3,25	4,55	7	10,5				
INPUT								
Voltage		220/230 Vac	(1P+N+PE)					
Voltage Tolerance		±%	615					
Frequency		50 Hz (60Hz	On Request)					
Frequency Range		5	%					
Current	30A	40A	58A	87A				
OUTPUT								
Voltage		220 Vac (1	P+N+PE)					
Voltage Regulation		±'	1%					
Frequency		50 Hz (60 Hz	: On Request)					
Frequency Tolerance	Synchroni	ized to Network $\pm 2\%$ in L	ine Mode; \pm 0,2 Hz in Fre	e Running				
Crest Ratio		3:	:1					
Efficiency (100% Load)	Up to	%90	Up to	%91				
THDv		<3% Linear Load, $<$	5% Non-Linear Load					
Overload	%100 <load<%< td=""><td>125 for 10 min., %125<l< td=""><td>.oad<%150 for 1 min, Lo</td><td>ad> 150:Bypass</td></l<></td></load<%<>	125 for 10 min., %125 <l< td=""><td>.oad<%150 for 1 min, Lo</td><td>ad> 150:Bypass</td></l<>	.oad<%150 for 1 min, Lo	ad> 150:Bypass				
Short Circuit Protection		Electronic	Protection					
BATTERY								
Туре		Maintenance Free	Lead Acid Battery					
Quantity	16	18	2	0				
Charge Voltage	216VDC	243VDC	270	VDC				
End of Discharge Voltage	160VDC	180VDC	200	VDC				
Battery Protection		Battery Fuse/Low B	Battery-High Battery					
Ambient Temperature		25	юС					
Battery Cabinet	h	nternal	Externa	al				
COMMUNICATION								
Interface		RS-232 and	Dry Contacts					
Software		UPS Management SV	V (3Client + 1Server)					
ENVIRONMENTAL								
Operating Temperature		0~4	40 °C					
Storage Temperature		-25 ~ -	+ 55°C					
Relative Humidity		%0-90 (Non-	-condensing)					
Altitude		<20	00 m					
Protection Level		IP:	20					
Acoustic Noise		<45	dBA					
PHYSICAL								
Dimensions (WxDxH) mm.	265x600x595	265x660x645	265x740x720	300x800x775				
Weight (kg)	60	75	82	107				
OPTIONS								
Input Transformer	Galvanic Isolation for the Input							
MBS	Maintenance Bypass Switch for Complete Isolation							
Interface	SNMP, MODBUS, Remote Mon. Panel, RS-485							
Parallel Operation	N+1 Unit (Up to 4 Units)							
STANDARDS								
Harmonized Standards	E	:IN 62040-1 (LVD), EN 620	040-2 (EIVIC), EN 62040-	3				

Atlas 100 Series Technical Specifications

ONLINE UPS

ATLAS 100 Series Online UPSs protect mono phase critical loads against utility failures and irregular voltage cases. They produce pure sine wave output via microprocessor controlled, manufactured with the state of the art PWM and IGBT technology. Galvanic isolation transformer, parallel operability, communication port are available. IT applications, small offices, service providers, communication networks, control equipment's, automation systems etc. are the main fields of use with a proved reliable high technology.

FEATURES

- Output transformer for galvanic isolation
- Static by-pass through the utility at Overload or UPS breakdown
- · Load, battery state and detailed information including advanced LCD panel
- · 64 registered events history
- · RS-232 and dry contact output

EGE 220K

20

18

EGE 200K

Series

MODEL

Operating Frequency Range

Harmonic Distortion (THDi)

Harmonic Distortion (THDİ) Generator Input

I ine

Battery

Bypass Voltage Range

Rated Power (kVA)

Active Power (kW)

INPUT

Rated Power

Voltage Range

Power Factor

ECO Range

OUTPUT

Frequency

Waveform

Power Factor

Crest Factor

Efficiency

Overload

Overheat

Battery

LCD Display

BATTERY

Capacity

Battery Voltage

Charge Current

ENVIRONMENT Operating Temperature

Storage Temperature

Relative Humidity

Audible Noise

STANDARDS

LVD (Safety)

PHYSICAL

Weight (kg)

EMC

Altitute

Short Circuit

Low Battery Voltage

LED & LCD Display

Self - Diagnostics

Communication Interface Audible & Visual Alarms

Typical Re-Charge Time

Rated Voltage

Voltage Regulation

Voltage Distortion (THDv)

SYSTEM FEATURES

UPS Type / Technology Transfer Time

Capability Bypass Mode

Line Mode

Ege 200K Series Technical Specifications 10-20 kVA 3 Phase Input - 1 Phase Output (HF) Online UPS

EGE 215K

15

13,5

380/400/415 Vac (3P+N+PE)

208~478 Vac

50Hz: 45-55Hz: 60Hz: 54-66Hz (Auto Sensing)

<5% (100% Linear Load)

0,99

Max.Voltage: 380Vac: +25%(optional+10%,+15%,+20%) 400Vac: +20%(optional+10%,+15%)

415Vac: +15%(optional+10%) Min.Voltage: -45% (optional -20%,-30%)

Same as the Bypass <5% (100% Linear Load)

Yes

220/230/240 Vac (1P+N+PE)

+1%

 $\pm 1\% / \pm 2\% / 4\% / \pm 5\% / \pm 10\%$ of the Rated Frequency (Optional)

 $50/60 \pm 0.1$ Hz

Pure Sine Wave

 \leq 2% (Liner Load); \leq 5% (Non-Linear Load)

0,9

3:1

Standalone Tower Type / True Online Double Conversion

Mains to Battery: 0 ms Mains to Bypass: 0 ms

Load \leq 110%: 60min; \leq 125%:10min, \leq 150%:1min,>150% turn to bypass mode immediately

100A (Breaker)

Hold Whole System

Line Mode: Switch to Bypass: Backup Mode: Shut down UPS immediately

Alarm and Switch Off Advanced Battery Management

Line Mode, Batt. Mode, Eco Mode, Bypass Mode, Battery Low, Overload & UPS Fault

Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage,

Battery Voltage, Inner Temperature & Remaining Battery Backup Time

Upon Power On and Software Control

USB (or RS-232), SNMP card (optional), Relay card (optional)

Line Failure, Battery Low, Overload, System Fault

±96/108/120 Vdc (Optional)

12V/7Ah/9Ah

6-8 Hours (to 90% of full capacity)

1A(Standard unit); long run unit max. current 10A (Long Run Unit)

 $0^{\circ}C \sim 40^{\circ}C$

-25°C ~ 55°C

0-95% (non-condensing)

<1500m

IEC / EN 62040-1 / IEC / EN 60950-1

IEC/EN62040-2/IEC 61000-4-2/IEC61000-4-3/IEC61000-4-4/IEC61000-4-5/IEC61000-4-6/IEC61000-4-8

45

<58 dBA

250x502x616

46

>94.5%

125A (Breaker)

EGE 210K / 210KL

10

9

>93,5%

63A (Breaker)

<55 dBA

76(K) / 35(KL)

(Estanta)	ESISYOWER

FEATURES

- N+X Parallel Redundancy
- Online Double Conversion with DSP Control
- Input Current Harmonic: <5%
- Optimization Battery Group, the Quantity of Battery: 16/18/20 pieces (optional)
- Output Power Factor is Changed When Selection Different Battery Quantity
 16 pcs: 0.7PF; 18pcs:0.8PF; 20pcs:0.9PF
- Wide Input Voltage Range: 208-478Vac
- Wide Input Frequency Range (50Hz: 45-55Hz; 60Hz: 54-66Hz)
- Support Generator Input
- Support Economic (ECO) Operation Mode
- · Self-Testing When UPS Startup
- Options: SNMP Card / Relay Card
- / Parallel Board
- Cold start

ONLINE UPS

EGE 200K Series of three phases in / single phase out with high frequency online double conversion UPS is a stable and reliable
UPS system which was designed by ESIS Company according to international power grid environment and network systems
requirements. Its excellent quality and perfect usability provide safe network power supply with reliable protection and satisfy the
users requirements of protecting overall equipment.

Dimensions (WxDxH) (mm) 250x597x655(K)/250x502x616(KL)

ATLAS 600

Series



FEATURES

- Wide Power Range (Available 5-100 kVA per request)
- IGBT Rectifier and Inverter
- Input Current Harmonic < %5
- DSP Controlled
- Up to 0.99 Input Power Factor Correction
- Static Bypass at UPS Overload or UPS Failure
- Advanced LCD Panel
- Up to 500 Event History
- Optional SNMP

Atlas 600 Series Technical Specifications 3 Phase Input - 1 Phase Output (HF) Online UPS

MODEL	610	615	620	630				
Power (KVA)	10	15	20	30				
Active Power (kW)	8	12	16	24				
INPUT								
Voltage		380/400/415 (Optional	440) Vac (3Ph+N+PE)					
Voltage Tolerance		±٩	620					
Frequency		50 Hz (On Re	equest 60 Hz)					
Frequency Tolerance		±	6%					
THDi		<'	%5					
Power Factor		0,	99					
OUTPUT								
Voltage		220/230/240 (Optional	254) Vac (1Ph+N+PE)					
Voltage Regulation		< ±	:1%					
Frequency		50 Hz (60 Hz	: On Request)					
Frequency Range	Synchroniz	ed to Network $\pm 2\%$ in On	line Mode; ±0,05 Hz in F	ree Running				
Crest Ratio	,	3	:1	0				
Efficiency (100% Load)		Up to	%91					
THDV		<3% Linear Load. <	5% Non-Linear Load					
Power Factor		0	,8					
Overload	%100 <load<%< td=""><td>6125 for 10 min %125<</td><td>load<150 for 1 min loa</td><td>d>150: Bypass</td></load<%<>	6125 for 10 min %125<	load<150 for 1 min loa	d>150: Bypass				
Short Circuit Protection		Electronic	Protection					
BYPASS								
Voltage Range		220/230/240 (Optio	nal 254) Vac ±%15					
Frequency Range		50 or 60 l	, Hz ± %10					
BATTERY								
Туре	Main	tenance Free Lead Acid B	attery (On request other t	ypes)				
Quantity		6	0					
Charge Voltage		810	Vdc					
End of Discharge Voltage		630	Vdc					
Protection		Deep Dischar	ge Protection					
DISPLAY PANEL								
LCD	G	araphic LCD Panel, Mimic	Diagram and Control Pan	el				
LED		Line,Battery, Inverter,	Load, Fault Indications					
COMMUNICATION								
Interface	Modbus RTU	RS232, Dry Contacts (Bat	tery Low, Input Failure, S	ystem Bypass)				
ENVIRONMENTAL								
Operating Temperature		-20 °C~	-+50°C					
Storage Temperature		-20 °C~	-+60°C					
Relative Humidity		%0-95 (non	condensing)					
Altitude		<10	00m					
Cooling		Air Co	ooling					
Protection Level		IP	20					
Acoustic Noise		<55	dBA					
PHYSICAL								
Dimensions (WxDxH) (mm)		350x79	5x1280					
Weight (kg)	95	100	100	105				
OPTIONS								
Functions	Parall	el Operation, EPO Emerge	ncy Stop, Isolation Transf	ormer				
Communication		SNMP, Mode	em, Modbus					
STANDARDS								
Standards	EN 62040-1 (LVD), EN 62040-20 (EMC), EN 62040-3							

ONLINE UPS

ATLAS 600 Series Online UPS's protect mono phase critical loads against utility failures and irregular voltage cases where you have three phase electricity. They produce pure sine wave output via microprocessor controlled, manufactured with the state of the art PWM and IGBT technology. Industrial automation, integrated facilities, building security automation, medical, communication and laboratory equipment, etc. are the main fields of use with a proved reliable high technology.

EGE <mark>300K</mark>

Series



FEATURES

- Smallest Footprint Design
- DSP-controlled Technology
- Parallel Redundancy up to 4 units
- Wide Input Voltage and Frequency
- Unity Power Factor and Low Input Distortion
- Output Power Factor at 0.9
- · ECO Mode for Energy Saving
- Common Battery
- Programmable Battery Voltage from +/-96Vdc to +/-240Vdc
- Built-in Batteries makes UPS ready to Use
- Matching Battery Packs
- 3-level intelligent Charge Modes with Smart Charge Current Adjustment
- Powerful Charger up to 10A
- Versatile Communication Interfaces Provided for Different Applications
- Superior Overload Capability
- Programmable Control and Monitoring Software via RS232 port
 Emergency Power Off

Ege 300K Series Technical Specifications 10-40 kVA 3 Phase Input - 3 Phase Output (HF) Online UPS

M	ODEL	EGE 310K/KL	EGE 315K/KL	EGE 320K/KL	EGE 330K/KL	EGE 340 KL					
Rated Power	r (kVA)	30	40								
Active Powe	r (kW)	9	9 13,5 18 27 36								
INPUT											
Rated Voltag	le		380/4	400/415 Vac (3P+N	+PE)						
Voltage Rang	ge			208~478 Vac		323~478 Vac					
Operating Fr	equency Range		50Hz: 45-55H	Hz: 60Hz: 54-66Hz (Auto Sensing)						
Harmonic Di	istortion (THDi)		<	5% (100% Linear Lo	ad)						
Power Facto	r			0,99							
Bypass Volta	age Range	Max. Voltage: 380V 415V	ac: +25%(optional+ ′ac: +15%(optional+	10%,+15%,+20%) 10%) Min.Voltage: -	400Vac: +20%(op 45% (optional -20%,-	tional+10%,+15%) -30%)					
Harmonic Di	istortion (THDi)		<	3% (100% Linear Lo	ad)						
Generator In	put			Yes							
OUTPUT											
Rated Voltag	je		380/4	400/415 Vac (3P+N	+PE)						
Voltage Regi	ulation			±1%							
Frequency	Line	W	Line M hen input frequency	lode: synchronize wit >±10% (±1%1±2%	h input; 61±4%1±5% option	al)					
inoquonoj	Batterv			50/60 ± 0.1 Hz							
Voltage Dist	ortion (THDv)		≤2% (Linea	r Load): $\leq 5\%$ (Non-	Linear Load)						
Power Facto	r		0.9								
Crest Factor		3:1									
Efficiency		>93.5% >94.5									
SYSTEM F	FATURES										
UPS Type / 1	Technology		Standalone Towe	r Type / True Online D	Oouble Conversion						
Transfer Tim	10		Mains to Bat	tery:0 ms: Mains to	Bypass:0 ms						
	Line Mode	Load< 110%: 6	60min: <125%:10min	. <150%:1min.>150)% turn to bypass mo	de immediately					
Overload	Batt. Mode	Load≤ 110%: 10)min: ≤125%:1min. ≤	150%:10sec.:>150	% Shut down UPS m	ode immedsatelv					
Capability	Bypass Mode	20A (Breaker)	32A (Breaker)	40A (Breaker)	63A (Breaker)	80A (Breaker)					
Alarm			Overload Utility	abnormal LIPS fault	Battery low etc						
Protection		Shor	t Circuit Overload O	ver Temperature Bat	tery I ow Fan Fault A	larm					
Communica	tion Interface	USB BS-485 Para	lle Port Dry Contact	Intelligent Slot SNM	IP Card (Ontional) R	elay Card (Ontional)					
BATTERY		000, 110 100, 1 410		, intolligone olot, onth	in ourd (optional), ri	olay olara (optional)					
Battery	Standart (K)	120 Vdc	120 Vdc	120 Vdc	120 Vdc	N/A					
Voltage	Long Backup(KL)	96V,108V,120Vdc	96V,108V,120Vdc	96V,108V,120Vdc	96V,108V,120Vdc	192,204,216,228,240Vdc					
Built in	Standart (K)	1,35 A	2,70 A	2,70 A	4 A	N/A					
Charger	Long Backup(KL)	10 A	10 A	10 A	10 A	10 A					
Built in Battery	/ Standart (K)	20x12V/9Ah Max.40 40x12V/9Ah 40x12V/9Ah 60x12V/9Ah N/A									
ENVIRONM	IENT	π									
Operating Te	mperature			$0^{\circ}C \sim 40^{\circ}C$							
Storage Tem	perature		-25°0	$C\sim 55^\circ C$ (without ba	attery)						
Relative Hum	nidity		0-	95% (non-condensir	ng)						
Altitute				<1500m (no derating	a)						
Audible Nois	е		<55	dBA		<58 dBA					
STANDARD)S										
LVD (Safety)			IEC / EN	N 62040-1 / IEC / EN 6	60950-1						
EMC		IEC/EN62040-2/IEC	61000-4-2/IEC61000	-4-3/IEC61000-4-4/IE	C61000-4-5/IEC6100	0-4-6/IEC61000-4-8					
PHYSICAL											
Dimensions	(WxDxH) (mm)			250x868x828							
Weight (kg)	. ,	95(K)/42(KL) 147(K)/45(KL) 147(K)/71(KL) 223(K)/73(KL)									

ONLINE UPS

Cold Start

EGE 300K Series are 3 phase input, 3 phase output, transformer-less parallel redundancy online UPS series, featured with smallest footprint cabinet, built-in batteries, DSP Control, Common Battery, Programmable battery voltage, 3-level intelligent charge mode with powerful battery charger, is an ideal budget-concerned solution to your server, bank, industrial equipment, internet data center, telecom, IT equipment and other Mission-critical application.

ATLAS 4000

Series



FEATURES

- Output Isolation Transformer
- IGBT Rectifier and Inverter
- Input Current Harmonic < %5
- DSP Controlled
- Up to 0.99 Input Power Factor Correction
- Static Bypass at UPS Overload or UPS Failure
- Advanced LCD Panel
- Up to 500 Event History
- Optional SNMP

Atlas 4000 Series Technical Specifications

10-300 kVA 3 Phase Input - 3 Phase Output (HF) Online UPS with Transformer

MODEL	4010	4015	4020	4030	4040	4060	4080				
Apparent Power (kVA)	10	10 15 20 30 40 60 80 8 12 16 24 32 48 64									
Active Power (kW)	8	12	16	24	32	48	64				
INPUT											
Voltage		3	80/400/415 (0	ptional 400) V	ac (3 P+N+P	E)					
Voltage Tolerance			± %5%20) (Adjustable w	vith %1 step)						
Frequency			50 H	Iz (Optional 60	Hz)						
Frequency Range				±5%							
THDi				<%5							
Power Factor				0,99							
OUTPUT											
Voltage		38	30/400/415 (C	ptional 440) V	'ac (3 P+N+F	PE)					
Voltage Regulation				$<\pm1\%$							
Frequency			50 H	Iz (Optional 60	Hz)						
Frequency Range		Synchronized	to Network±%	2 in Line Mod	e: ± 0,05 Hz i	n Free Running	I				
Power Factor				0,8							
Overload	%100<	Load<%125	for 10 min., %	125 <load<%< td=""><td>6150 for 1 min</td><td>., Load>150 :</td><td>Bypass</td></load<%<>	6150 for 1 min	., Load>150 :	Bypass				
Efficiency (100% Load)				Up to %91							
Crest Ratio				3:1							
THDv		<3% Linear Load, <5% Non-Linear Load									
BYPASS											
Voltage Range		380/400/415 Vac (3 P+N+PE) (Optional 440 Vac)									
Frequency Range	50 (Optional 60) Hz \pm %10										
BATTERY											
Battery Type		Maintenance Free Lead Acid Battery 12 Vdc (On request other types)									
Quantity				60							
Charge Voltage				810 Vdc							
Min. Discharge Voltage				630 Vdc							
Battery Protection			Deep	Discharge Prot	ection						
GENERAL											
Display		Gra	ohic LCD Moni	tor, Control Par	nel, Mimic Diag	gram					
LED		I	Line, Battery, Ir	nverter, Load, F	ault Indication	S					
Operating Type			Static	, Online,DSP C	ontrol						
Topology		High Frequer	icy PWM, IGB1	Technology, (Output Isolation	n Transformer					
COMMUNICATION											
Interface	Moo	dbus RTU RS2	32, Dry Conta	cts (Battery Lo	w, Input Failure	e, System Bypa	ass)				
ENVIRONMENTAL											
Operating Temperature				0~40°C							
Storage Temperature				-25~70°C							
Relative Humidity	%20-%90 (Non-Condensing)										
Altitude				<1000 m							
Protection Level				IP20							
Acoustic Noise (from 1m.)		<55 dB	A		<	<60 dBA					
PHYSICAL											
Dimensions (WxDxH)mm		350x800x1	650		500	x810x1900					
Weight (kg)	195	205	215 2	25 2	260	290	410				
OPTIONS											
Functions			Parallel Opera	tion, Emergen	cy Stop (EPO)						
Communication				SNMP, Modern	1						
STANDARS											
Harmonized Standars	EN 62040-1(LVD), EN62040-2(EMC), EN62040-3										

ONLINE UPS

ATLAS 4000 Series are, 3 Phase in/3 Phase out 10-300 kVA True Online, with isolation transformer, Double Conversion UPS Systems with IGBT rectifier providing high input power factor and low input current THD. They produce microprocessor controlled pure sine wave output to critical loads. Industrial manufacturing machines, hospital and monitoring equipment, heavy, medical, communication and laboratory equipment, etc. are the main fields of use with a proved reliable high technology.

ATLAS 4000

Series





FEATURES

- Output Isolation Transformer
- IGBT Rectifier and Inverter
- Input Current Harmonic < %5
- DSP Controlled
- Up to 0.99 Input Power Factor Correction
- Static Bypass at UPS Overload or UPS Failure
- Advanced LCD Panel
- Up to 500 Event History
- Optional SNMP

MODEL	4100	4120	4160	4200	4250	4300				
Apparent Power (kVA)	100	120	160	200	250	300				
Active Power (kW)	80	96	128	160	200	240				
INPUT										
Voltage	380/400/415 (Optional 440) Vac (3P+N+PE)									
Voltage Range		\pm %5%20 (Adjustabe with %1 Step)								
Frequency			50 Hz (Opti	onal 60 Hz)						
Frequency Range			±	5%						
THDi			<9	%5						
Power Factor			0,9	99						
OUTPUT										
Voltage		380/4	00/415 (Optional	440) Vac (3P+N	I+PE)					
Voltage Regulation			<±	:1%						
Frequency			50 Hz (Opti	onal 60 Hz)						
Frequency Range	Sy	nchronized to Ne	etwork \pm %2 in L	ine Mode; ±0.05	iHz in Free Runn	ing				
Power Factor			0,8 (Fu	ll Load)						
Overload	%100 <l< td=""><td>oad<%125 for 1</td><td>0 min., %125<l< td=""><td>oad<%150 for 1</td><td>min., Load>15</td><td>0 :Bypass</td></l<></td></l<>	oad<%125 for 1	0 min., %125 <l< td=""><td>oad<%150 for 1</td><td>min., Load>15</td><td>0 :Bypass</td></l<>	oad<%150 for 1	min., Load>15	0 :Bypass				
Efficiency (100% Load)		Up to % 92								
Crest Factor			3:	:1						
THDv	Linear Load for $<3\%$, Non-Linear Load for $<5\%$									
BYPASS										
Voltage	380/400/415 Vac (3P+N+PE) (Optional 440 Vac)									
Frequency	50 Hz ±%10									
BATTERY										
Battery Type	Maintenance Free Lead Acid Battery 12 Vdc (On request other types)									
Quantity			6	0						
Charge Voltage			810	Vdc						
Min. Discharge Voltage			630	Vdc						
Battery Protection			Deep Dischar	ge Protection						
GENERAL		0		D 1 10 - D						
Display		Grap	nic LCD, Control	Panel, Mimic Dia	gram					
LED		Line,	Battery, Inverter,	Load Fault Indica	tions					
Operating Type			Static, Unline	DSP Control						
Topology		High Frequency F	WM, IGBT Techn	ology, Output Iso	lation Tranforme	r				
COMIMUNICATION	Madh)ru Contonto (Bot	toru Low Input F	ailura Cuatam B	(2000)				
	IVIOUDI	15 110 13232, 1	ny contacts (dat	tery Low, input r	allure, system b	yµass)				
			0 4	0.00						
Operating temperature			0~4							
Storage temperature			-20~-	+700						
	/1000 m									
Protoction Lovel			< 10 יסו	00111						
Acoustic Noise (from 1m)	~65	4BV	IF: 70~	dBV	~75	dBV				
	<00	UDA	<10	UDA	<10	UDA				
Dimensions (WyDyH) mm	550x81	Nx2N4N		1610x87	70x1900					
Weight (kg)	600	680	900	1030	1640	1720				
	000	000	500	1000	1040	1720				
Functions		Par	allel Operation En	nergency Ston (Fl	20)					
Communication		1 41	SNMP I	Modem	-/					
STANDARDS			0141411, 1							
Harmonized Standards	EN 62040-1 (IVD) EN 62040-2 (EMC) EN 62040-3									
			(LVD), LIV 020	5+5-2 (LIVIO), EIV	02070-0					

ONLINE UPS

ATLAS 4000 Series are, 3 Phase in/3 Phase out 10-300 kVA True Online, with isolation transformer, Double Conversion UPS Systems with IGBT rectifer providing high input power factor and low input current THD. They produce microprocessor controlled pure sine wave output to critical loads. Industrial manufacturing machines, hospital and monitoring equipment, heavy, medical, communication and laboratory equipment, etc. are the main fields of use with a proved reliable high technology.

ATLAS 5000





FEATURES

- IGBT Rectifier and Inverter
- Input Current Harmonic < %5
- Regenerative Operating
- Re-adjustable Battery Charge Current
- Built-in Self-Test
- Silent Performance
- Up to 6 Unit Parallel Operation
- DSP Controlled
- Up to 0.99 Input Power Factor Correction
- Static Bypass at UPS Overload or UPS Failure
- Advanced LCD Panel
- Up to 500 Event History
- High Performance for Medical Instruments
- Parallel Operating without Communication
- CE Certificate
- Patented Technology

ONLINE UPS

ATLAS 5000 Series are, 3 Phase in/3 Phase out 10-800 kVA True Online, Transformer-less, Double Conversion UPS Systems with IGBT rectifier providing high input power factor and low input current THD. They produce microprocessor controlled pure sine wave output to critical loads. Industrial manufacturing machines, hospital and monitoring equipment, heavy, medical, communication and laboratory equipment, etc. are the main fields of use with a proved reliable high technology.

Atlas 5000 Series UPS

10-800 kVA 3 Phase Input - 3 Phase Output (HF) Online UPS

MODEL	5010	5015	5020	5030	5040	5060	5080		
Apparent Power (kVA)	10	15	20	30	40	60	80		
Active Power (kW)	8	12	16	24	32	48	64		
INPUT									
Voltage		3	80/400/415 (0	ptional 440) V	′ac (3P+N+PI	E)			
Voltage Tolerance			±%5%20	(Adjustable w	ith 1% step)				
Frequency			50 Hz	(On Request 6	60 Hz)				
Frequency Range				%5					
THDi				<5%					
Power Factor				0,99					
OUTPUT									
Voltage		3	80/400/415 (0)ptional 440) V	′ac (3P+N+Pl	E)			
Voltage Regulation				<±1%					
Frequency			50 H	z(On request 6	0 Hz)				
Frequency Range		Synchronized	to Network ± 2	2% in Line mod	le; ±0,05 Hz ii	n Free Running			
Crest Ratio				3:1					
Efficiency (100% Load)				Up to %93					
Power Factor				0,8					
THDv			<3% Linear L	_oad, <5% No	n Linear Load				
Overload	%100	<load<%12< td=""><td>5 for 10 min., 9</td><td>%125<load<< td=""><td>150 for 1 min.</td><td>,Load>150: B</td><td>ypass</td></load<<></td></load<%12<>	5 for 10 min., 9	%125 <load<< td=""><td>150 for 1 min.</td><td>,Load>150: B</td><td>ypass</td></load<<>	150 for 1 min.	,Load>150: B	ypass		
Short Circuit Protection			Ele	ctronic Protect	tion				
BYPASS									
Voltage Range		380)/400/415 Vac	(3P+N+PE)	(Optional 440 \	/ac)			
Frequency Range			50 (0	ptional 60) Hz	±10%				
BATTERY									
Туре	Maintenance Free Lead Acid Battery								
Quantity		60							
Charge Voltage				810 Vdc					
End of Discharge Voltage				630 Vdc					
Battery Protection			Deep	Discharge Prot	tection				
Battery Test			Au	tomatic / Man	uel				
DISPLAY PANEL									
		Gra	phic LCD Panel	, Mimic Panels	s and Control F	Panel			
LED			Line,Battery,In	verter, Load, F	ault Indications	3			
COMMUNICATION									
Interface	Mo	dbus RTU RS2	32, Dry Conta	cts (Battery Lo	w, Input Failure	e, System Bypa	ass)		
ENVIRONMENTAL					<i>i</i>	, , ,	,		
Operating Temperature				0~40°C					
Storage Temperature				-25~+70°C					
Relative Humidity			%0-95	5 (Non- Conde	nsina)				
Altitude			,	<1000 m					
Cooling									
Protection Level	All Cooling								
Acoustic Noise	<55 dBA <60 dBA								
PHYSICAI		<00	UDA			<00 UDA			
		350v70	5v1110			500v806v1213	2		
Weight without Ratteries (kg)	100	105	110	110	135	1/10	155		
OPTIONS	100	105	110	110	100	140	100		
Connections			Without Neut	ral for Input or	nd / or Output				
CONTRECTIONS		n to 6 Unite De			nov Stop Critt	Dunana Datta	n.		
Functions	U	Temp	perature Compe	ensation, Trans	sportable LCD	Panel	i y		
Communication				SNIVIP, Modem					
STANDARDS									
Harmonized Standadrs		EN 6	62040-1 (LVD),	EN 62040-2 (EMC), EN 620	40-3			

ATLAS 5000

Series

Atlas 5000 Series UPS

10-800 kVA 3 Phase Input - 3 Phase Output (HF) Online UPS





FEATURES

- IGBT Rectifier and Inverter
- Input Current Harmonic < %5
- Regenerative Operating
- Re-adjustable Battery Charge Current
- Built-in Self-Test
- Silent Performance
- Up to 6 Parallel Operation
- DSP Controlled
- Up to 0.99 Input Power Factor Correction
 Static Bypass at UPS Overload or UPS Failure
- Advanced LCD Panel
- Up to 500 Event History
- High Performance for Medical Instruments
- · Parallel Operating without Communication
- CE Certificate
- Patented Technology

ONLINE UPS

ATLAS 5000 Series are, 3 Phase in / 3 Phase out 10-800 kVA True Online, Transformer-less, Double Conversion UPS Systems with IGBT rectifier providing high input power factor and low input current THD. They produce microprocessor controlled pure sine wave output to critical loads. Industrial manufacturing machines, hospital and monitoring equipment, heavy, medical, communication and laboratory equipment, etc. are the main fields of use with a proved reliable high technology.

MODEL	5100	5120	5160	5200	5250	5300	5400	5500	5600	5800		
Apparent Power (kVA)	100	100 120 160 200 250 300 400 500 600 800 80 96 128 160 200 240 320 400 480 640										
Active Power (kW)	80	96	128	160	200	240	320	400	480	640		
INPUT												
Voltage			38	0/400/415	(Optional	440) Vac	(3P+N+I	PE)				
Voltage Tolerance		\pm %5%20 (Adjustable with 1% step)										
Frequency		50 Hz (On Reequest 60 Hz)										
Frequency Range					%	5						
THDi					<	5%						
Power Factor					0,9	99						
OUTPUT												
Voltage		380/400/415 (Optional 440) Vac (3P+N+PE)										
Voltage Regulation					<±	:1%						
Frequency				50	Hz(On Re	quest 60 l	Hz)					
Frequency Range		Synch	nronized to	Network	±2% in Li	ne mode;	±0,05 Hz	in Free Ru	Inning			
Crest Ratio					3:	:1						
Efficiency (100% Load)					> %	693						
Power Factor					0,	8						
THDv				<3% Linea	ar Load, <	:5% Non L	inear Load	t				
Owerload		%100 <lo< td=""><td>oad<%12</td><td>5 for min.,</td><td>%125<l< td=""><td>bad<150</td><td>for 1 min.,</td><td>Load>15</td><td>0: Bypass</td><td>6</td></l<></td></lo<>	oad<%12	5 for min.,	%125 <l< td=""><td>bad<150</td><td>for 1 min.,</td><td>Load>15</td><td>0: Bypass</td><td>6</td></l<>	bad<150	for 1 min.,	Load>15	0: Bypass	6		
Short Circuit Protection					Electronic	Protection	I					
BYPASS		380/400/415 \/oo /2 D + N + DE\ /Ontional 440 \/oo)										
Voltage Range		380/400/415 Vac (3 P+N+PE) (Optional 440 Vac)										
Frequency Range		50 Hz±10%										
BATTERY												
Туре		Maintenance Free Lead Acid Battery										
Quantity		60										
Charge Voltage					810	Vdc						
End of Discharge Voltage					630	Vdc						
Battery Protection				Dee	ep Dischar	ge Protec	tion					
Battery Test					Automatic	: / Manuel						
DISPLAY PANEL			- ·									
LCD			Graph	nic LCD Pa	nel, Mimic	Panels a	nd Control	Panel				
LED			LII	ne, Battery	, Inverter,	Load, Fau	It Indicatio	ns				
COMMUNICATION								<u> </u>				
Interface		Modbus H	RIU RS23	2, Dry Cor	itacts (Bat	tery Low,	Input Failu	re, Systen	n Bypass)			
ENVIRONMENTAL												
Operating Temperature					0~4	10°C						
Storage Temperature					-25~-	+70°C						
Relative Humidity				%()-95 (Non-	Condensi	ng)					
Altitude					<10	uu m						
Cooling					Air Co	ooling						
Protection Level												
	<00											
	EE.v00	w104	00.10	1.175	70.10	0.100	100-07-100	010-0	1.000	000-07-100		
Moight without Detterios (Un)	55X8(050	00X10	100	78X12	0000	100X8/X180	21988	1400	322X8/X180		
ODTIONS	240	200	300	400	020	000	900	990	1400	2100		
				Without N	outral for l	nnut and	or Output					
Connections		l In to 6	Unite Para	allel Onerat	tion FPO F	mergener	Stop Spl	it Rynaec	Battery			
Functions		ομ το σ	Tempe	rature Cor	npensatior	n, Transpo	rtable LCE) Panel	Dationy			
Communication					SNMP, I	viodem						
STANDARDS												
Harmonized Standards	EN 62040-1 (LVD), EN 62040-2 (EMC), EN 62040-3											

ATLAS 5000PF





FEATURES

- IGBT Rectifier and Inverter
- Input Current Harmonic < %5
- Regenerative Operating
- Re-adjustable Battery Charge Current
- Built-in Self-Test
- Silent Performance
- Up to 6 Parallel Operation
- DSP Controlled
- Up to 0.99 Input Power Factor Correction
- Static Bypass at UPS Overload or UPS Failure
- Advanced LCD Panel
- Up to 500 Event History
- High Performance for Medical Instruments
- Parallel Operating without Communication
 Operating without Communication
- CE Certificate
- Patented Technology

ONLINE UPS

ATLAS 5000PF Series are, 3 Phase in/3 Phase out 10-800 kVA True Online, Transformer-less, Double Conversion UPS Systems with IGBT rectifier providing 0,9 Output Power factor and very low input current THD. They produce microprocessor controlled pure sine wave output to critical loads. Industrial manufacturing machines, hospital and monitoring equipment, heavy, medical, communication and laboratory equipment, etc. are the main fields of use with a proved reliable high technology.

Atlas 5000PF Series UPS

10-800 kVA 3 Phase Input - 3 Phase Output 0,9 PF Online UPS

MODEL	5010PF	5015PF	5020PF	5030PF	5040PF	5060PF	5080PF			
Apparent Power (kVA)	10	15	20	30	40	60	80			
Active Power (kW)	9	9 13,5 18 27 36 54 72								
INPUT										
Voltage		3	80/400/415 (C	ptional 440) V	ac (3P+N+P	E)				
Voltage Tolerance			±%5±%2	0(Adjustabe w	vith %1 Step)	,				
Frequency			50 Hz	(On Request 6	60 Hz)					
Frequency Range				%5	,					
THDi				<5%						
Power Factor				0,99						
OUTPUT										
Voltage		3	80/400/415 (0	ptional 440) V	ac (3P+N+P	E)				
Voltage Regulation				<±1%						
Frequency			50 Hz	z(On request 6	0 Hz)					
Frequency Range		Synchronized	to Network ± 2	% in Line mod	e; ±0,05 Hz i	n Free Running	J			
Crest Ratio				3:1		-				
Efficiency (100% Load)				>%92						
Power Factor				0,9						
THDv			<3% Linear L	.oad, <5% No	n-Linear Load					
Owerload	%100	<load<%12< td=""><td>5 for 10 min %</td><td>125<load<1< td=""><td>50 for 1 min.,</td><td>Load>150: B</td><td>ypass</td></load<1<></td></load<%12<>	5 for 10 min %	125 <load<1< td=""><td>50 for 1 min.,</td><td>Load>150: B</td><td>ypass</td></load<1<>	50 for 1 min.,	Load>150: B	ypass			
Short Circuit Protection			Ele	ctronic Protect	ion					
BYPASS										
Voltage Range		380/400/415 Vac (3P+N+PE) (Optional 440 Vac)								
Frequency Range	50 (Optional 60) Hz±10%									
BATTERY										
Туре			Maintenan	ce Free Lead A	cid Battery					
Quantity				60						
Charge Voltage				810 Vdc						
End of Discharge Voltage				630 Vdc						
Battery Protection			Deep	Discharge Prot	ection					
Battery Test			Au	tomatic / Man	uel					
DISPLAY PANEL										
LCD		Gra	phic LCD Panel	, Mimic Panels	and Control F	Panel				
LED		l	_ine, Battery, Ir	iverter, Load, F	ault Indication	S				
COMMUNICATION										
Interface	Mo	dbus RTU RS2	32, Dry Conta	cts (Battery Lo	w, Input Failur	e, System Byp	ass)			
ENVIRONMENTAL										
Operating Temperature				0~40°C						
Storage Temperature				-25~+55°C						
Relative Humidity			%0-95	5 (Non- Conde	nsing)					
Altitude	<1000 m									
Cooling				Air Cooling						
Protection Level				IP20						
Acoustic Noise		<55	dBA			<60 dBA				
PHYSICAL										
Dimensions (WxDxH)cm		350x79	5x1110			500x806x1213	3			
Weight without Batteries(kg)	100	105	110	110	135	140	155			
OPTIONS										
Functions			Parallel Opera	ation, EPO Em	ergency Stop					
Communication				SNMP, Modem						
STANDARDS										
Harmonized Standards	EN 62040-1 (LVD), EN 62040-2 (EMC), EN 62040-3									
			. ,,	,						

ATLAS 5000PF





FEATURES

- IGBT Rectifier and Inverter
- Input Current Harmonic < %5
- Regenerative Operating
- Re-adjustable Battery Charge Current
- Built-in Self-Test
- Silent Performance
- Up to 6 Parallel Operation
- DSP Controlled
- Up to 0.99 Input Power Factor Correction
- Static Bypass at UPS Overload or UPS Failure
- Advanced LCD Panel
- Up to 500 Event History
- High Performance for Medical Instruments
 Deputie Operating with set 2
- Parallel Operating without Communication
 OF Continues
- CE Certificate
- Patented Technology

ONLINE UPS

ATLAS 5000PF Series are, 3 Phase in/3 Phase out 10-800 kVA True Online, Transformer-less, Double Conversion UPS Systems with IGBT rectifier providing 0,9 Output Power factor and very low input current THD. They produce microprocessor controlled pure sine wave output to critical loads. Industrial manufacturing machines, hospital and monitoring equipment, heavy, medical, communication and laboratory equipment, etc. are the main fields of use with a proved reliable high technology.

Atlas 5000PF Series UPS

10-800 kVA 3 Phase Input - 3 Phase Output 0,9 PF Online UPS

ĺ	MODEL	5100PF	5120PF	5160PF	5200PF	5250PF	5300PF	5400PF	5500PF	5600PF	5800PF
1	Apparent Power (kVA)	100	120	160	200	250	300	400	500	600	800
	Active Power (kW)	90	108	144	180	225	270	360	450	540	720
	INPUT										
	Voltage			38	0/400/415	6 (Optional	440) Vac	(3P+N+	PE)		
	Voltage Tolerance				±%5%	620 (Adjus	tabe with	%1 Step)			
	Frequency				50	Hz (On Re	equest 60	Hz)			
	Frequency Range					%	5				
	THDi					<	5%				
J.	Power Factor					0,	99				
Į	OUTPUT										
	Voltage			38	0/400/415	6 (Optional	440) Vac	(3P+N+	PE)		
	Voltage Regulation					<±	:1%				
	Frequency				50	Hz (On Re	equest 60	Hz)			
	Frequency Range		Sync	hronized to	o Network	±2% in l	ine mode;	±0,05 Hz	in Free Ru	Inning	
	Crest Ratio					3	:1				
	Efficiency (100% Load)					Up to	%93				
	Power Factor					0	,9				
	THDv				<3% Line	ar Load, <	5% Non-L	inear Loa	d		
	Owerload	%	100 <loa< td=""><td>d<125 fo</td><td>r 10 min.,</td><td>%125<l0< td=""><td>ad<%150</td><td>) for 1 mir</td><td>n., Load></td><td>150: Bypa</td><td>SS</td></l0<></td></loa<>	d<125 fo	r 10 min.,	%125 <l0< td=""><td>ad<%150</td><td>) for 1 mir</td><td>n., Load></td><td>150: Bypa</td><td>SS</td></l0<>	ad<%150) for 1 mir	n., Load>	150: Bypa	SS
ł	Short Circuit Protection					Electronic	Protectior	1			
ł	BYPASS										
	Voltage Range			380/4	400/415 V	ac (3 P+N	1+PE) (0p	otional 440) Vac)		
ł	Frequency Range					50 Hz	±10%				
ł					Maintar		الممط المنط	Dettern			
	lype Quantity				wainter	iance Free	Lead Acid	Battery			
	Qualitity					0	Vdo				
	End of Discharge Voltage					620	Vuc				
	Rattery Protection				Do	on Dischar	vuc rae Protect	tion			
	Battery Test				De			lion			
i						Automatic					
i				Graph	nic LCD Pa	nel. Mimio	: Panels ai	nd Control	Panel		
	L FD			Li	ne. Batterv	/. Inverter.	Load. Fau	It Indicatio	ons		
i	COMMUNICATION				.,,	, ,	,				
Î	Interface		Modbus I	RTU RS23	2, Dry Coi	ntacts (Bat	tery Low,	Input Failu	ıre, Syster	n Bypass)	
Ì	ENVIRONMENTAL										
Ĩ	Operating Temperature					0~4	10°C				
	Storage Temperature					-25~-	+70°C				
	Relative Humidity				%(0-95 (Non	Condensi	ng)			
	Altitude					<10	00 m				
	Cooling					Air Co	ooling				
	Protection Level					IP	20				
	Acoustic Noise	<65	dBA	<70	dBA	<74	dBA		<75	dBA	
	PHYSICAL										
	Dimensions (WxDxH)cm	550x80	0x1335	680x10	10x1750	780x1260x1900	1600x87	70x1800	2190x801x2030	3220x8	70x1800
	Weight (kg)	290	315	490	540	870	1300	1370	1480	1700	1750
	OPTIONS										
	Functions				Parallel O	peration, E	PO Emerg	ency Stop)		
	Communication					SNMP,	Modem				
	STANDARDS										
	Harmonized Standards			EN 62	040-1 (LV	D), EN 62	040-2 (EN	IC), EN 62	2040-3		

ATLAS 7000

Serie



GENERAL FEATURES

- 3L UPS Technology
- High Efficiency Up to %96
- IGBT Rectifier and Inverter
- Input Current Harmonic < %5
- Up to 0,999 Input Power Factor
- Very Low Output THDv <%2
- Advanced LCD Panel
- Up to 500 Event Log History

ONLINE UPS

Atla	as 7)00 Series Technical S	peo	cations	
	-				

Three Level (3L) High Efficiency 3 Phase Input - 3 Phase Output Online UPS

S	MODEL	7010	7020	7030	7040	7060	7080	7100	7120	7160	7200	7250	7300
	Rated Power (kVA)	10	20	30	40	60	80	100	120	160	200	250	300
	Active Power (kW)	9	9 18 27 36 54 72 90 108 144 180 225 270										
ĺ	INPUT												
	Voltage		380/400/415 (Optional 440) Vac (3P+N+PE)										
	Voltage Tolerance		\pm %5%20 (Adjustabe with %1 Step)										
	Frequency					50 H	z (On Re	quest 60) Hz)				
	Frequency Range						5	%					
	THDi						<	%3					
	Power Factor						0,9	99					
	OUTPUT												
	Voltage				380/4	00/415 (Optional	440) Va	ac (3P+1	N+PE)			
	Voltage Regulation						< ±	=1%					
	Frequency					50 H	Iz (On re	quest 60) Hz)				
	Frequency Range		S	ynchroni	zed to N	etwork :	±2% in I	ine mod	e,±0,05	Hz in Fr	ee Runni	ng	
	Crest Ratio						3	:1					
	Efficiency (100% Load)						Up to	%96					
	Power Factor						. 0	,9					
	THDv						<	2%					
	Overload	9	%100 <l< td=""><td>.oad<%</td><td>125 for 1</td><td>0 min., 9</td><td>%125<l< td=""><td>.oad<%</td><td>150 for 1</td><td>l min., L</td><td>oad>15</td><td>0 :Bypas</td><td>s</td></l<></td></l<>	.oad<%	125 for 1	0 min., 9	%125 <l< td=""><td>.oad<%</td><td>150 for 1</td><td>l min., L</td><td>oad>15</td><td>0 :Bypas</td><td>s</td></l<>	.oad<%	150 for 1	l min., L	oad>15	0 :Bypas	s
	Short Circuit Protection		Electronic Protection										
	BYPASS												
	Voltage Range	380/400/415 Vac (3P+N+PE) (Optional 440 Vac)											
	Frequency Range	$50 \text{ Hz} \pm \%10$											
	BATTERY												
	Battery Type				Ν	laintenai	nce Free	Lead Ac	id Batter	y			
	Quantity						6	0					
	Charge Voltage						810	Vdc					
	End of Discharge Voltage						630	Vdc					
	Battery Test					A	utomatio	: / Manu	el				
	Battery Protection					Deep	Dischar	ge Prote	ction				
	DISPLAY PANEL												
	LCD				Graphic I	CD Pan	el, Mimio	Panels	and Con	trol Pane	el		
	LED				Line,	Battery, I	nverter, l	_oad, Fa	ult Indica	tions			
	COMMUNICATION												
	Interface		Modb	us RTU I	RS232, E	Ory Conta	acts (Bat	tery Lov	v, Input F	ailure, S	ystem By	ypass)	
	ENVIRONMENTAL												
	Operating Temperature						0~4	10°C					
	Storage Temperature						-25~-	+70°C					
	Relative Humidity	%0-95 (Non Condensing)											
	Altitude	<1000 m											
	Cooling	Forced Air Cooling											
	Protection Level						IP	20					
	Acoustic Noise		<55 dBA	4		<60 dBA	۱		<65 dBA	١		<70 dBA	١
	PHYSICAL												
	Dimesions (WxDxH)mm.	350x79	5x1110	500x80	6x1213	500)x880x13	360	605x93	6x1605	780	x1260x1	900
	Weight (kg)	10)5	1	10	140	155	240	300	380	400	820	850
	OPTIONS												
	Functions			Paralle	el Operat	ion, EPO	Emerge	ncy Stop	o, Isolatio	on Transf	ormer		
	Communication						SNMP, I	Modem					
	STANDARDS												
	Harmonized Standards	EN 62040-1 (LVD), EN 62040-2 (EMC). EN 62040-3											

ATLAS 7000 Series are, 3 Phase in/3 Phase out 3 Level, High Efficiency True Online, Transformer-less, UPS Systems with IGBT rectifier providing highest input power factor and lowest input current THD. They produce microprocessor controlled pure sine wave output to critical loads. Industrial manufacturing machines, hospital and monitoring equipment, heavy, medical, communication and laboratory equipment, etc. are the main fields of use with a proved reliable high technology.

300k/270k

307

150k/135k

230Vac:+20%(Optional+10%,+15%)

<3%(100% Non-Linear Load)

25kVA/22,5kW: 30kVA/27kW

90k/81k

MEDI

Series

MODEL

Operating Frequency Range

Harmonic Distortion (THDi)

Module

UPS Cabinet

MEDI Module

Weight [kg]

149

152

10 kVA:26; 15 kVA:30; 20 kVA:31

Capacity

(kVA/kW)

Voltage Range

Power Factor

INPUT Rated Voltage



Rated Voltag	je			380/400	/415 Vac (3P-	+N+PE)						
Voltage Reg	ulation		$\pm 1\%$ $\pm 1\%$									
Frequency	Line		$\pm 1\%/\pm 2\%/\pm 4\%/\pm 5\%/\pm 10\%$ of the Rated Frequency (Optional)									
riequency	Battery		50/60 ± 0,1 Hz									
Voltage Dist	ortion (THDv)		\leq 2% (Linear Load); \leq 5% (Non-Linear Load)									
Power Facto	r				0,9							
Crest Factor			3:1									
Efficiency			95,5% 95%									
SYSTEM F	EATURES											
UPS Type / T	Technology		Modular Type / True Online Double Conversion									
Transfer Tim	ie		Mains to Battery: 0 ms; Mains to Bypass: 0 ms									
Overload	Line Mode	Load ≤110	.oad \leq 110%: 60min; \leq 125%: 10min, \leq 150%: 1min, $>$ 150% turn to bypass mode immediately									
Canability	Battery Mode	Load ≤11	Load ≤110%: 10min; ≤125%: 1min, ≤150%: 1sec >150% turn to bypass mode immediately									
oupublicy	Bypass Mode	Breaker (10	reaker (10k:20A, 15k:32A, 20k:40A) Breaker (25k:40A, 30K:60A)									
Short Circui	t		Hold Whole System									
Noise Suppr	ression		Complies with EN62040-2									
Communication	UPS Cabinet	RS2	RS232, RS485, Dry Contact, 2x Intelligent Slot (SNMP Card, Relay Card optional)									
Interface	MEDI Module				RS232							
BATTERY												
Battery Volta	ige		±192	/204/216/228/	240Vdc (Batte	ry quantity Op	tional)					
Charge	UPS Cabinet	Max. 18A	Max. 30A	Max. 60A	Max. 60A	Max. 30A	Max. 50A	Max. 100A				
Current	MEDI Module		Max. 6A		Max. 6A	25 kVA: 6	A Max; 30 kVA	A: 10A Max				
ENVIRON	IENT											
Operating Te	emperature				$0^{\circ}C \sim 40 \ ^{\circ}C$							
Storage Terr	perature				-25°C ~ 55°C	;						
Relative Hur	nidity			0-95%	% (Non-Conde	nsing)						
Altitute			< 1500 m									
Audible Nois	se		< 65 dB			< 7	0 dB					
STANDAR	DS											
LVD (Safet	y)			IEC/EN 62	040-1 / IEC/E	N 60950-1						
EMC		IEC/EN 62040-	2 / IEC61000-4-	2 / IEC61000-4-3	3/ IEC61000-4-4	/ IEC61000-4-5	/ IEC61000-4-6	/ IEC61000-4-8				
PHYSICAL												
Dimensions (WxDxH)	UPS Cabinet	600x84	0x1400	600x110	00x2000	840x60	0x1400	1100x600x2000				
[mm]	MEDI Module			58	30x443x131 (3	SU)						

MODULAR UPS Technical Specifications

10-1560 kVA 3 Phase Input - 3 Phase Output Modular UPS

UPS Cabinet 10-60k/9-54k 10-100k/9-90k 10-200k/9-180k 250k/225k

10kVA/9kW;15kVA/13,5Wk;20kVA/18kW 25kVA/22,5kW

Max. Voltage:220Vac:+25%(Optional+10%,+15%,+20%)

<2% (100% Non-Linear Load)

MEDI-3060 MEDI-3100 MEDI-3200 MEDI-3250 MEDI-3090 MEDI-3150 MEDI-3300

380/400/415 Vac (3P+N+PE)

208~478 Vac

40~70 Hz

<3% (100% Linear Load)

≥0,99

240Vac: +15% (Optional +10%) Min. Voltage: +45% (Optional-20%,-30%) Frequency Protection Range10%

Yes



- High Frequency and Double Conversion Online Technology
- Advanced PFC technology
- 3U Frame, Rack-Mounted and Tower Convertible
- EPO Function
- Wide Input Voltage Range
- Fully Digitized Microprocessor Control
- Parallel Redundancy
- Advanced Battery Management
- Lightning and Surge Protection, Short Circuit and Overload Protection
- · Multilingual LCD and LED display
- EMI RFI Noise Filter
- Smart RS232 Communication with Monitoring Software
- Optional SNMP Card Slot



290

32

158

170

25 kVA:32; 30 kVA:33,5

MEDI

Series

1

ECORGINED	
CONTINUES	
-	
	12

FEATURES

- High Frequency and Double Conversion Online Technology • Advanced PFC technology
- 3U Frame, Rack-Mounted and Tower Convertible
- EPO Function
- Wide Input Voltage Range
- Fully Digitized Microprocessor Control
- Parallel Redundancy
- Advanced Battery Management
- Lightning and Surge Protection, Short Circuit and Overload Protection
- Multilingual LCD and LED display
- EMI RFI Noise Filter
- Smart RS232 Communication with Monitoring Software
- Optional SNMP Card Slot

MODULAR UPS Technical Specifications 10-1560 kVA 3 Phase Input - 3 Phase Output Modular UPS

М	ODEL	MEDI-3400	MEDI-3520	MEDI-3800	MEDI-31040	MEDI-31560			
Capacity	UPS Cabinet	400kVA/360kW	520kVA/468kW	800kVA/720kW	1040kVA/936kW	1560kVA/1404kW			
INDIT	Woulle			HUKVAJOKVV					
Dated Volta	200		380	//00//15 Vac (3P+N+	DE)				
Voltago Par	iye		500/	208478 Vac	-12)				
Operating F				200~470 Vac					
Dowor Fact	arequeitcy hallye			40~70112					
Bypass Vol	ltage Range	Max. Voltage: 220Vac 240Vac: +15%(option	: +25%(optional +10 nal +10%) Min Volt	0,55 %,+15%,+20%) age: -45% (optional -20	230Vac: +20%(0)	otional +10%,+15%) Protection Bange 10%			
Harmonic [Distortion (THDi)	240740. 1 10/0(0040)	101 T TO /0 WINT. VOI	$\frac{100\%}{100\%}$ (optional 20	ad)	rotoodon nango row			
Generator I	nput		~		au)				
				105					
Dated Volta	200		380/	100//15 Vac (3P+N	L DE)				
Voltage Reg	aulation		500/*	+00/413 Vac (3r +14- +1%	+r L)				
VUILAYE NE	Line		10//+00//+/0//+5	$\pm 1/0$ %/ $\pm 10\%$ of the Peter	Fraguanay (Antion	n.			
Frequency	Battery	1	:1 /0/ エ2 /0/ エ4 /0/ エ3	$\frac{10}{2} \pm 10\%$ of the hatet		u)			
Voltago Dig	tortion (TUDu)		00/ // inco	50/00 ± 0,1 HZ	incor Lood)				
Output Pow			≤z% (Linea	r Load); ≤5% (Non-L	inear Load)				
Croct Facto	ver racior			0,9					
Efficiency	Л			3:1 05%					
SYSTEM	FFATURES		00/0						
	Technology	Madulas Tura / Tsua Online Dauble Conversion							
Transfor Ti	ne		Mains to Batt	erv: 0 ms: Mains to F	Bynass: 0 ms				
	Line Mode	Load ~110%: 60	min: ~125%: 10min	-150% 1min > 15	Nypass. 0 ms N% turn to hypass m	vde immediately			
Overload	Battery Mode	Load <110%: 00	1000000000000000000000000000000000000	, ≤150%: 1mm, ≥15 ~150%: 1sec >150	% turn to bypass m	de immediately			
Capability	Bypass Mode	L000 \$110%. 10	Jinin, ≤120%. Innin	Breaker (40k:95A)	70 turn to bypass m				
Short Circu	uit			Hold Whole System					
Noise Supr	pression		Co	mplies with EN62040	-2				
Communication	UPS Cabinet	RS232, R	S485, Dry Contact, 2	2x Intelligent Slot (SNI	MP Card, Relay Card	optional)			
Interface	MEDI Module		, , ,	RS232		, ,			
BATTERY									
Battery Volt	tage		±192/204/216/2	28/240Vdc (Battery o	quantity Optional)				
Charge	UPS Cabinet	Max. 100A	Max. 130A	Max. 200A	Max. 260A	Max. 390A			
Current	MEDI Module			Max. 10A					
ENVIRON	MENT								
Operating	lemperature			0°C ~ 40 °C					
Storage I	emperature			-25°C ~ 55°C					
Relative H	lumidity	0-95% (Non-Condensing)							
Altitute		< 1500 m							
Audible N	oise	< 73 dB							
STANDAR	IDS								
LVD (Safe	ty)		IEC/EN	62040-1 / IEC/EN 60	0950-1				
EMC		IEC/EN 62040-2 / IEC	61000-4-2 / IEC61000	-4-3/ IEC61000-4-4 / IEC	C61000-4-5 / IEC61000	J-4-6 / IEC61000-4-8			
PHYSICA									
(WxDxH)	UPS Cabinet	860x120	10x2000	860x1800x2000	860x3000x2000	1100x4800x2000			
[mm]	MEDI Module		0.57	580x443x131 (3U)	10.17				
Weight [kg]	UPS Cabinet	750	860	1300	1810	2800			
	MEDI Module			34					







BATTERY CHARGING RECTIFIERS

Main purpose of Battery Charging Rectifier is to convert AC Voltage to DC Voltage. Rectifiers are designed to charge batteries and to provide energy needs of DC power-fed devices. According to the fields of application, Rectifiers are entitled as Rectifier, Battery Charger and Rectifier & Charger. In accordance with input voltage, rectifiers are produced in two types as 1 phase 220VAC and 3 phase 380VAC. Battery chargers can be designed in 12V, 24V, 48V, and 110 and 220 VDC output voltages to the type of applications.

Bora Series Battery chargers (rectifiers) can usually charge all battery types like as gel battery, liquid battery or dry battery etc. Recently, solar charger, wind charger, solar and wind inverters are widely used together with inverter & battery charging rectifier in solar and wind energy applications. The most common uses of direct current power supplies are zones where storage of energy is needed (stored), emergency lighting, security systems and routing systems.

POYRAZ series Battery Chargers are designed by using today's technology for charging batteries of electric vehicles and DC energy necessity of the equipment's which are supplied with the very sensitive direct current. To provide the minimum ripples, Battery Charger uses DSP Controlled IGBT technology and advanced filters at the input and output.

Battery chargers' most common usage areas are telecommunications, power distribution stations, sea and land transport vehicles, industrial and military facilities, substations, wind and solar power plants, power stations, UPS (Uninterruptible Power Supply)systems, intelligent building projects and all kinds of battery charging applications.

DOTIA Phase Mono Ph Series INPUT Voltage Voltage Voltage Tolerance Frequency Frequency Frequency Tolerance OUTPUT Voltage Range (Vd) Voltage Regulation Output Currents (A Ripple Efficiency Efficiency

BORA



Bora Series Technical Specifications Mono Phase Input Rectifier / Battery Charger with Transformer

MODEL (See Below Tables)* 220 Vac (Optional 230/240 Vac) +20%50 / 60 Hz (Automatic Selection) Frequency Tolerance ± 5 Hz Voltage Range (Vdc) 12, 24, 48, 110, 220 Vdc (Others on Request) Voltage Regulation + 2%Output Currents (A) 10, 15, 20, 25, 30, 40, 50, 60, 75, 80,100, 120, 125 (Others on Request) < 5% (Without Battery) Up to 88% GENERAL Control Microprocessor Controlled Short Circuit, Over Current, Over Temperature, Ouput Voltage Low/High, DC Ground Protections Missing Warning Float Charge, Boost Charge, Equalizing Charge Battery Charge Mode Float Charge : 2 - 2.45V/Cell (Depends Battery Type) Display 128x64 Graphic LCD, 6 Buttons, 6 pcs LED Isolation Input-Output: 2000 V, Input/Output-Ground: 500V Communication Dry Contacts, (Optional MODBUS) **ENVIRONMENTAL** $0 \sim +40 \ ^{\circ}C$ **Operating Temperature** -20 ~+70 °C Storage Temperature % 0-95 (Non-condensing) Relative Humidty Cooling Forced Cooling with Fan Protection Level IP20 (Others on Request) Acoustic Noise 55 dBA PHYSICAL Up to 1,2 kW Dimensions 500x370x630 (HxWxD) mm. Up to 10 kW 580x470x870 **STANDARDS** EN62040-1, EN 61204 (LVD), EN61204-3 (EMC) Harmonized Standards

BATTERY CHARGING RECTIFIERS

BORA series rectifiers are designed by today's technology for charging batteries and for the DC energy necessity of the equipment's which are supplied with the direct current. Common usage areas are telecommunication, energy distribution stations, land and marine transport vehicles, industrial and military foundations and all kinds of battery charging applications. Rectifiers have completely electronic structure and they check the output current and voltage by power part with thyristor. To provide the minimum ripples, the output part is equipped with the filter containing capacitors, and choke inductors.

GENERAL FEATURES

- Thyristor Phase Control Technology
- Voltage and Current Controlled Automatic Charge
- Usage as DC Power Supply
- Temperature Controlled Charge
- Battery Test Function
- Event History
- Wide Power Range
- High Efficiency and Reliability
- Electronic Protections
- User Friendly LCD Panel
- Optional Double LCD for Load and Battery
- Optional Portable LCD Panel
- LCD works without AC Input
- Easy to Use

BORA SINGLE PHASE MODELS										
V A	10	12	15	20	30	40	50	60	100	
24	1024-10	1024-12	1024-15	1024-20	1024-30	1024-40	1024-50	1024-60	1024-100	
48	1048-10	1048-12	1048-15	1048-20	1048-30	1048-40	1048-50	1048-60	1048-100	
110	1110-10	1110-12	1110-15	1110-20	1110-30	1110-40	1110-50	1110-60	1110-100	

* Other models are available per request.

BORA 3 Phase

Series



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Bora Series Technical Specifications 3 Phase Input Rectifier / Battery Charger with Transformer

		MODEL (See Below Tables)*						
INPUT								
Voltage		380 (Optional 400/415/440) Vac (3P+N+PE)						
Voltage Tolera	ance	± 20%						
Frequency		50/60 Hz (Automatic Selection)						
Frequency To	lerance	± 5 Hz						
OUTPUT								
Voltage Rang	e (Vdc)	24, 48,110, 220 Vdc (Others on Request)						
Voltage Regu	lation	± 2%						
Output Curren	nts (A)	10, 20, 30, 40, 50, 60, 80, 100, 150, 200, 250, 300, 400, 600 (Others on Request)						
Ripple		< 5% (Without Battery)						
Efficiency		Up to 90%						
GENERAL								
Control		Microprocessor Controlled						
Protections		Short Circuit, Over Current, Over Temperature, Ouput Voltage Low/High, DC Ground Missing Warning						
Dettern Oher	. Mada	Float Charge, Boost Charge, Equalizing Charge						
Battery Charg	je iviode	Float Charge : 2 - 2.45V/Cell (Depends Battery Type)						
Display		128x64 Graphic LCD, 4 Buttons, 6 pcs LED						
Isolation		Input-Output: 2000 V, Input/Output-Ground: 500V						
Communication	on	Dry Contacts, (Optional MODBUS)						
ENVIRONM	ENTAL							
Operating Ter	nperature	0 ~ + 40 °C						
Storage Temp	perature	-20 ∼+70 °C						
Relative Hum	idty	% 0-95 (Non-condensing)						
Cooling		Forced Cooling with Fan						
Protection Le	vel	IP20 (Others on Request)						
Acoustic Nois	se	55 dBA						
PHYSICAL								
Dimensions	Up to 10 kW	580x470x870						
(HxWxD)	Up to 33 kW	650x1100x700						
mm.	Others	Ask for Other Models						
STANDARD	S							
Harmonized S	Standards	EN62040-1, EN 61204 (LVD), EN61204-3 (EMC)						

BATTERY CHARGING RECTIFIERS

BORA series rectifiers are designed by today's technology for charging batteries and for the DC energy necessity of the equipment's which are supplied with the direct current. Common usage areas are telecommunication, energy distribution stations, land and marine transport vehicles, industrial and military foundations and all kinds of battery charging applications. Rectifiers have completely electronic structure and they check the output current and voltage by power part with thyristor. To provide the minimum ripples, the output part is equipped with the filter containing capacitors and choke inductors.

GENERAL FEATURES

- Thyristor Phase Control Technology
- Voltage and Current Controlled Automatic Charge
- Usage as DC Power Supply
- Temperature Controlled Charge
- Battery Test Function
- Event History
- Wide Power Range
- · High Efficiency and Reliability
- Electronic Protections
- User Friendly LCD Panel
- Optional Double LCD for Load and Battery
- Optional Portable LCD Panel
- LCD works without AC Input
- Easy to Use

BORA THREE PHASE MODELS

V A	30	40	50	60	100	150	200	250	300	400	600
24	3024-30	3024-40	3024-50	3024-60	3024-100	3024-150	3024-200	3024-250	3024-300		
48	3048-30	3048-40	3048-50	3048-60	3048-100	3048-150	3048-200	3048-250	3048-300	3048-400	3048-600
110	3110-30	3110-40	3110-50	3110-60	3110-100	3110-150	3110-200	3110-250	3110-300	3110-400	3110-600
220	3220-30	3220-40	3220-50	3220-60	3220-100	3220-150	3220-200	3220-250	3220-300		

* Other models are available per request.

POYRAZ



Poyraz Series Technical Specifications 3 Phase Input Vehicle Battery Charger With Isolation Transformer

Series			MODEL (See Below Tables)*								
	INPUT										
	Voltage		380 Vac (Optional 400/415) Vac								
	Voltage Tole	rance	± 20%								
	Frequency		50 Hz , (Optional 60 Hz)								
	Frequency T	olerance	± 5%								
	OUTPUT										
	Voltage Rang	ge (Vdc)	400, 600 Vdc (Others on Request)								
	Voltage Reg	ulation	± 1%								
	Output Curre	ents (A)	40,125A (Others on Request)								
	Ripple		<1% (Without Battery)								
	Efficiency		Up to 90%								
	GENERAL										
	Control		Microprocessor Controlled								
	Protections		Short Circuit, Over Current, Over Temperature, Output Voltage Low/High, Input voltage Low/High								
	Battery Char	ge Mode	Float Charge								
	Display		128x64 Graphic LCD, 4 Buttons, 6 pcs LED								
1000	Isolation		Input-Output: 2000 V, Input/Output to Ground: 1000V								
	ENVIRON	/IENTAL									
	Operating Te	mperature	0 ~+40 °C								
	Storage Tem	perature	-20 ~+70 °C								
	Relative Hun	nidty	% 0-95 (Non-condensing)								
	Cooling		Forced Cooling with Fan								
	Protection L	evel	IP20, IP43 (Others on Request)								
	Acoustic No	ise	60 dBA								
	PHYSICAL										
	Dimensions	Up to 24 kW	1300x800x590								
	(HxWxD)	Up to 50 kW	1546 x 800 x 738								
	mm.	Others	Ask for Other Models								
	STANDARI	DS									
	Harmonized	Standards	EN62040-1, EN 61204 (LVD), EN61204-3 (EMC)								

Harmonized Standards

BATTERY CHARGING RECTIFIERS

POYRAZ series Battery Chargers are designed

by using today's technology for charging

batteries of electric vehicles and DC energy

necessity of the equipment's which are

supplied with the very sensitive direct current.

To provide the minimum ripples, Battery

Charger uses DSP Controlled IGBT technology

and advanced filters at the input and output.

GENERAL FEATURES

- Ideal Charger for Electric Vehicle Battery IGBT Rectifier
- Voltage and Current Controlled Automatic Charge
- · Low Ripple Value
- High Efficiency and Reliability
- Electronic Protections
- Microprocessor Controlled
- CANBUS Communication for Smart Battery Charging
- User Friendly LCD Panel
- · Easy to Use

	POYRAZ										
V A	30	40	50	60	100	150	200	250	300	400	600
400	400-30	400-40	400-50	400-60	400-100	400-150	400-200	400-250	400-300	400-400	600-400
600	600-30	600-40	600-50	600-60	600-100	600-150	600-200	600-250	600-300	600-400	600-600
* Other mod	els are ava	⁵ Other models are available per request.									



INVERTERS

The inverter by its own cannot produce electric, but just converts the existing DC voltage (direct current) into AC (alternating current). Inverter converting the DC voltage into AC voltage is a device designed to satisfy the energy requirements of instruments where there is no mains. In other words, the inverter can be described as a device that converter 12, 24, 48 and 110 VDC battery voltage into 220 VAC, 50/60 Hz voltage. Inverters are manufactured mainly in 3 types as Square wave inverters, sinusoidal analogy output inverters and Modified Sine wave inverters. Today, Grid Connected inverters have been developed having high DC voltage input range for renewable energy applications. There are two types Inverter as On-Grid and Off-Grid. Ongrid Inverters can feed the grid while Off-Grid inverters work independent from grid and feed its own loads.



Inverters are usually used in various places for different applications as wind and solar energy applications, sea and land transport vehicles, the GSM network and other communication areas, in zones in where no mains, applications need to store energy (backed up energy) etc. Recently, solar charger, wind charger, solar and wind inverter&battery charging rectifier in solar and wind energy applications.



ELIT-G 3030

ELIT G

Series

MODEL

ELIT G Series On-Grid Inverter Technical Specifications 20-30 kW Three Phase String PV Inverter

ELIT-G 3020

ESISPOWER	



Bottom View

GENERAL FEATURES

- 3 Phase Grid Connection
- Built-in MPPT
- IGBT Based PWM Technology
- High Efficiency
- DSP Controlled
- User Friendly LCD Panel
- Event History
- Adjustable Power Factor
- Optional Remote Management
- Easy to Use CE Certificate

DC DATA									
Recommended PV Power (kW)	24	32							
MPPT Voltage Range	580-85	50 Vdc							
Max. DC Voltage	1000	Vdc							
Max. DC Current	42	63							
MPP Tracking	1x Fast Precise	MPP Tracking							
Number of DC Connections	6	6							
AC DATA									
Max AC Power (kW)	20	30							
AC Grid Connection	L1, L2, L3	3, N, PE							
AC Rated Voltage	400 Vac +9	%10 - %20							
Frequency Range	50, 60 / 45	5 65 Hz							
CosØ	0,9i	0,9c							
Max. AC Current	28,9	43,4							
THDi	< 3%								
Max. Efficiency	98,10%								
EU Efficiency	97,50%								
CEC Efficiency	C Efficiency 97,70%								
PROTECTIONS									
Overvoltage Category (AC/DC)	vervoltage Category (AC/DC) Type II								
AC Short Circuit	Electronic Protection								
Grid High / Low Voltage	Ye	S							
ENVIRONMENTAL									
Ambient Temperature	-10 ~ +	-50 °C							
Altitude	<200)0 m							
Acoustic Noise (1 m.)	<50	dBA							
Protection Type	IP6	5							
COMMUNICATION									
Interface	RS485, N	MODBUS							
PHYSICAL									
Dimensions (WxDxH) mm.	480x325x705	700x325x705							
Weight (kg)	45	50							
STANDARDS									
EMC	EN 61000-	-6-2, EN 61000-6-4							
LVD	DIN EN 6210	9-1,DIN EN 62109-2							
Grid Protection	VD	E 0126-1-1							
Environmental Classes	DIN IEC 721-3-3								
Certificate	CE								

ON-GRID SOLAR INVERTER

ELIT G solar inverter gets the energy from the PV panel and injects it to the grid. ELIT G has three levels IGBT technology inside therefore its efficiency is very high with respect to conventional solar inverters. Not only is nominal power, even if low power, its efficiency is very high. Beside the three levels technology, it has DSP (digital signal processor) technology. Thanks to DSP all the controls of the inverter are made by software. On the other hand, inverter has graphic LCD at front panel to display all the necessary information to the user including current, voltage, etc. Because of MPPT feature of the inverters, the maximum powers of the PV panels are tracked in every condition.

ELIT C

Series

ELIT C Series Ongrid Inverter Technical Specifications 110-500 kW 3 Phase On-Grid Central Inverter





MODEL	ELIT G 3110	ELIT G 3150	ELIT G 3250	ELIT G 3500					
DC DATA									
Recommended PV Power (kW)	110	160	260	520					
MPPT Voltage Range		580-85	580-850 Vdc						
Max. DC Voltage		1000	Vdc						
Max. DC Current	198A	270A	450A	900A					
MPP Tracking		1	1 (on re	equest 2)					
Number of DC Connections	4-8	4-8	4-10	4-15					
DC Protection	Yes								
AC DATA									
Max AC Power (kW)	110	150	250	500					
AC Grid Connection		L1, L2, L	.3, N, PE						
AC Rated Voltage		400 Vac +	%10 - %20						
Frequency Range	50, 60 / 45 65 Hz								
CosØ	0,9i…0,9c								
Max. AC Current	160A	217A	362A	724A					
THDi	< 3%								
Max. Efficiency	98,80%								
EU Efficiency	98,00%								
CEC Efficiency	98,50%								
PROTECTIONS									
Over Voltage Category (AC/DC)		Тур	e II						
AC Short Circuit		Electronic	Protection						
Grid High / Low Voltage		Ye	es						
ENVIRONMENTAL									
Operating Temperature		-10 ~ -	+50 °C						
Cooling		Fa	an						
Altitude		<20	00 m						
Acoustic Noise (from 1m.)		<70	dBA						
Protection Class		IP20,	IP43						
COMMUNICATION									
Interface		RS485, I	MODBUS						
PHYSICAL									
Dimensions (WxDxH) mm.	840x680x1670 1000x868x1800								
Weight (kg)	290	315	540	685					
STANDARDS									
EMC		EN 61000-6-2,	EN 61000-6-4						
LVD	DIN EN 62109-1 , DIN EN 62109-2								
Grid Protection		VDE 01	26-1-1						
Enviromental Class		DIN IFC	721-3-3						

• 3 Phase Grid Connection

Built-in MPPT

GENERAL FEATURES

- IGBT Based PWM Technology
- High Efficiency
- DSP Controlled
- User Friendly LCD Panel
- Event History
- Adjustable Power Factor
- Optional Remote Management
- · Easy to Use

ONGRID SOLAR INVERTER

ELIT C Ongrid Solar Inverter converts DC energy coming from PV Panels to AC Voltage and transfer it Interconnected Grid System. It uses built in MPPT algorithm and transfer maximum power to mains. User can track all electrical values of Inverter and produced power statistics by means of Advanced LCD Panel

ELIT K

ELIT K Series Off-Grid Inverter Technical Specifications 3-20 kVA LF Off-Grid Inverter

Series



MODEL	3048	5048	7548	10048	3060	5060	7560	10060	3110	5110	8110	10110	12110	15110	20110
Apparent Power (kVA)*	3	5	7,5	10	3	5	7,5	10	3	5	8	10	12	15	20
Active Power (kW)*	2,4	4	6	8	2,4	4	6	8	2,4	4	6,4	8	9,6	12	16
INPUT															
Voltage		48	Vdc			60	Vdc				1	10 Vo	lc		
Voltage Tolerance							4	± 10%	Ď						
Ripple								<3%							
Low Input Level		40	Vdc			54	Vdc				8	38 Vd	С		
High Input Level		60	Vdc			72	Vdc				1	37 Vo	lc		
Bypass Voltage						220 (Optior	nal 23	0/240)) Vac					
OUTPUT															
Voltage					2	220 Va	c (Opt	ional 2	230/24	40 Vac	;)				
Voltage Tolerance	± %2														
Frequency	50/60/83/400 Hz														
Frequency Tolerance	<± 0.4%														
Waveform	Pure Sine Wave														
THDv	< % 6														
Crest Ratio	3:1														
Overload	60 sec for %150 load@50 Hz														
GENERAL															
Display							Gra	phic L	.CD						
Alarm Contacts							A	vailab	le						
Ouput GND Isolation							2	000 \	/						
Input Output Isolation							ļ	500 V							
Protections	Soft	Start,0	ver Ter	nperatu	ıre,Higł	n/Low I	nput Vo	ltage,H	ligh/Lo	w Outp	ut Volta	ige,Ove	rload,S	hort C	ircuit
ENVIRONMENTAL															
Operating Temperature							0	~ 40	°C						
Stroge Temperature							-40	~ +7	0°0						
Relative Humidity						% 0-	95 (N	lon-co	onden	sing)					
Altitude							<	2000	m						
Cooling						F	orced	l Air C	ooling	g					
Protection Level								IP20							
PHYSICAL															
Dimensions (HxWxD) mm.	Up	o to 5	kVA 3	15x53	35x43	5:5-1	0 kVA	:460x	600x	550 1	5-20 I	VA:4	39x62	3x11	86
STANDARDS	STANDARDS														
	EN 620400-1 (LVD), EN 62040-2 (EMC)														

*Other powers can be manufactured per request

OFFGRID SINE WAVE INVERTER

The ELIT K series inverters produced in ESIS facilities with the latest technology are power supplies providing the same voltage form as the grid. They have advanced technology of DSP (Digital Signal Processors) to convert 48V, 60V and 110V DC voltages into AC Voltage at desired frequency. These inverters can be utilized for the supplying of all electrical equipment without any trouble because of the pure sine wave at the output. Since the energy source is a DC voltage when there is no grid source, they can provide long-life energy in land, marine vehicles, industrial institutions, railways, military applications, telecommunication switchboards, energy production centers. Thanks to the DSP technology, frequencies are available to be formed sensitively, with a little change in software; they can be reassigned as 60Hz, 83Hz and 400Hz. These inverters are available for all kinds of applications due to the wide input voltages, standard power options between 3kVA to 20 kVA, silent performance, high efficiency, and pure sine wave.

ELIT

Μ

Series





ELIT M Series 1-6 kW (LF) Inverter with Charger

	1012M	2012M	3012M	4024M	5024M	6024M				
MODEL	1024M	2024M	3024M	4048M	5048M	6048M				
INVERTER OUPUT										
Continuous Output Power	1000W	2000W	3000W	4000W	5000W	6000W				
Surge Rating (20s)	3000W	6000W	9000W	12000W	15000W	18000W				
Output Waveform		Pure Sine	Wave/Same	as input(Bypa	ass mode)					
Nominal Efficiency			>88%	(Peak)	,					
Line Mode Efficiency	>95%									
Power Factor			0.9	-1.0						
Nominal Output Voltage RMS			230	Vac						
Output Voltage Regulation			+10%	BMS						
Output Frequency	50/60Hz + 0.3Hz									
Short Circuit Protection		Yes. Curre	ent Limit Fund	tion (Fault af	ter 1 sec.)					
Typical Transfer Time		,	10	ms	,					
THDi			<	3%						
DC INPUT										
Nominal Input Voltage 12.0Vdc (*2 for 24Vdc. *4 for 48Vdc)										
Minimum Start Voltage			, 10.0	Vdc	,					
Low Battery Alarm			10.5/1	1.0 Vdc						
Low Battery Trip			10.0/10).5 Vdc						
High Voltage Alarm & Fault			16.0	Vdc						
Idle Consumption-Search Mode		<	25 W when I	Power Saver (On					
CHARGER										
Input Voltage Range	nput Voltage Range Narrow : 194~243Vac; Wide : 164~243Vac									
Output Voltage	Depends on Battery Type									
Charger Breaker Rating	1	0	2	0	3	0				
Max Charge Rate $(\pm 5A)$			15A 85	5A +/-5A						
Over Charge Protection Shutdown		15.7V for 12	Vdc, 31.4V fc	or 24Vdc, 62.	8V for 48Vdc					
BYPASS & PROTECTION										
Input Voltage Waveform	Sine Wave (Grid or Generator)									
Nominal Voltage			230	Vac						
Low Voltage Trip			184Vac/15	i4Vac±4%						
Low Voltage re Engage			194Vac/16	$4Vac \pm 4\%$						
High Voltage Trip			253Va	c±4%						
High Voltage re Engage			243Va	c±4%						
Max Input AC Voltage			270	Vac						
Nominal Input Frequency		ł	50Hz or 60Hz	(Auto detect)					
Low Freq Trip		47 ± 0.3	3Hz for 50Hz,	57 ± 0.3 Hz fo	or 60Hz					
High Freq Trip		55±0.3	3Hz for 50Hz,	65 ± 0.3 Hz fo	or 60Hz					
Output Short Circuit Protection			Circuit	Breaker						
Max Bypass Current		30 A			40 A					
MECHANICAL SPECIFICATIONS										
Mounting			Wall r	nount						
Dimensions (DxWxH) mm	382x218x179	442x21	8x179		598x218x179					
Weight (Net/Gross) kg.	18/21	20/23	24/27	35/39	45/49	45/49				
Display			Status	LED's						
STANDARDS										
Standards	EN 60	950-1; EN61	000-3-2; EN6	1000-3-3:20	05, EN55024	:2003				

HIGH FREQUENCY INVERTER

ELIT M Series inverters are devices forming line voltage from 12V, 24V and 48V battery voltages used in daily life and business life. Thanks to practical uses, output isolation transformer structures and charging facilities, these units are used safely in land and sea vehicles and open spaces. Because generates output voltage in the form of Sinusoidal, they offer trouble-free solution to all kinds of loads such as computer, TV, refrigerator, lighting, engine load and so on.

CUSTOMIZED PRODUCTS BY ESISPOWER



Customized Power Supplies;

Up to its establishment since 2000, ESISPOWER has been manufacturing customized power supplies to the customer specifications. Nowadays, It's extensively needed non-standard and easy-inaccessible AC and DC power supplies especially in defense industry and electricity generation facilities where auxiliary power sources needed. These electronic power supplies of which specifications prepared by our customers entirely including their own unique demands, are projected being carefully examined by ESIS R&D Department and resulted in a design-to-one matching to the specifications. The production department of ESIS manufactures and presents these designs to the customer's use by the latest technology complying with the requirements of ISO 9001 quality management system. ESIS service technicians taking the necessary training in the post-production services, fulfill the most secure after sales service to customers whenever needed.

All type of power electronics technologies available in the world, are easily used in our company and not hold back executing and implementing the newest technologies in need. In this context, the designs and the devices by ESISPOWER include: Inverters, Rectifiers, Static Frequency Converters and UPS's for the requirements of Land Forces, Naval Forces and Air Forces in Turkish Armed Forces, Battery Charging Rectifiers for power plants and electricity distribution companies, Inverters for the State Railways and wide variety of products for different projects such as these.

28 Vdc-2000 A Helistart Rectifier

This rectifier is designed for Turkish Army Forces and can be used as fixed or portable. This device can supply up to 2000 A Direct Current which is startup DC energy of helicopter for at least 20 seconds at 28 Vdc.





Submarine Frequency Converter

This converter is produced according to the Military standards and provides different AC Output Voltages at different frequencies in only one cabinet. Converter can resist against to the very high shock and vibration values which are usual for Navy due to very rugged and strong chassis

800 kVA Mobile UPS

This unit was designed according to Military Standards for Military Purposes. It includes Industrial Air Conditioning System. This system can be used as fixed or mobile.



RUGGED TRUCK MOUNTED MILITARY SHELTER WITH 300 KVA UPS

ESISPOWER Mobile Uninterruptible Power Supply is designed and manufactured according to military standards and is used to supply high power systems working at field. It is composed 300 kVA UPS, Industrial Air Condition System, Cabin and Semi-Trailer. It can work in hard environmental conditions. System is equipped with air conditioning to work at temperature between -25° C and $+45^{\circ}$ C. Cabin carried by the trailer can be used as mobile or fixed unit by placed in the platform. The system can be carried on 30% gradient asphalt and stabilize road and safety brakes can fix the whole system on %30 gradient.



FN 3000

Series



GENERAL SPECIFICATIONS

- IGBT Rectifier and Inverter
- Input Current Harmonic < %5
- Silent Performance
- DSP Controlled
- Up to 0.99 Input Power Factor Correction
- Advanced LCD Panel
- Up to 500 Event History
- CE Certificate

Frequency Co	onverters Techn	ical Specification
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10-300 kVA 3 Phase Input - 3 Phase Output (HF) 400 Hz

MODEL	3010	3015	3020	3030	3040	3060	3080	3100	3120	3160	3200	3250	3300
Apparent Power(kVA)	10	15	20	30	40	60	80	100	120	160	200	250	300
Active Power (kW)	8	12	16	24	32	48	64	80	96	128	160	200	240
INPUT													
Voltage	115/20	0 Vac,	220/38	0 Vac, 1	254/44	0 Vac (3	3P+N+	-PE) or	Optiona	al Speci	al Desig	gn W/O	Neutral
Voltage Tolerance		\pm %5%20 (Adjustable with %1 step)											
Frequency					5	0 Hz (0	n reque	st 60 F	łz)				
Frequency Tolerance							%5						
THDi		<5%											
Power Factor		0.99											
OUTPUT													
Voltage	115/20	115/200 Vac, 220/380 Vac, 254/440 Vac (3P+N+PE) or Optional Special Design W/O Neutral											
Voltage Regulation							<±1%	1					
Frequency						400	Hz ±0	.5%					
Crest Ratio							3:1						
Efficiency		>8	9%						>90%				
Power Factor		0.8											
THDv		<3% Linear Load, <5% Non-Linear Load											
Overload	%10	%100 <load<%125 %125<load<%150="" 1="" 10="" for="" min.,="" min.,load="">150 :Shut down</load<%125>											
Short Circuit Protection		Electronic Protection, Fuse											
GENERAL FEATURES													
Working Type	Static, Online, DSP Controlled												
Topology				Н	igh Fred	quency	PWM,	IGBT T	echnolo	gy			
Display						128x6	4 Grapi	nic LCD)				
LED			6 p	ocs for	Line, Cl	harge, E	Battery,	Inverte	r, Overlo	oad, Fai	lure		
Event Logs					Up to	o 500 L	ogged l	Event H	listory				
ENVIRONMENTAL													
Operating Temperature						0	• ~ 40	°C					
Storage Temperature						-25	i~+5	5 °C					
Relative Humidity					%	0-95 ((Non-co	ondensi	ing)				
Altide (without derating)							<1000	m					
Cooling						Force	ed Air C	ooling					
Protection Level		IP20 (Others on request)											
Acoustic Noise		<55	dBA			<60 dB.	A	<65	dBA		<70	dBA	
PHYSICAL													
Dimensions (WxDxH) mm.	350	x795x1	110		500x80)6x1213	3	550x80)0x1335	680x10	07x1747	780x1260x1900	1600x868x1800
Weight (kg)	11	12	115	119	160	165	172	290	315	490	540	870	1300
OPTIONS													
Functions				Parall	el Oper	ation, E	P0 Em	ergency	y Stop,	Heater			
Battery		60x12 Vdc Maintenance Free Dry Type											
Isolation Transformer						Input	and/or	Output					
Communication		Dry Contacts, SNMP, Modem, RS232, RS485											
STANDARDS													
Llaumaning d Otan davda	EN 62040-1(LVD), EN 62040-2(EMC), EN 62040-3, EN 55011, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4,							00-4-4,					

Harmonized Standards

EV40*1(EV4), EV 02040*2(EW0), EV 02040*3, EV 02047*3, EV 0100*4*2, EV 0100*4*3, EV 0100*4*3, EV 0100*4*3, EV 0100*4*6, EV 0100*2*2, MIL-STD-461, MIL-STD-1310G



FREQUENCY CONVERTER

Static frequency converters are used with the devices which cannot adapt to line frequency. Static converters are more economic and more technological solution than the conventional motor generator (Dynamic Converter) for these problems. Their efficiency is higher, but operation costs are lower. Frequency converter's dynamic response is very short, because of working with static components. They are DSP controlled and they can be developed according to customer needs. Battery can be added to system and converter can continue to work even in line failures.FN3000 Series converts 50/60 Hz Input Frequency to 400 Hz Output Frequency at desired voltage and are used for mostly military systems.

FN 5000



GENERAL SPECIFICATIONS

- IGBT Rectifier and Inverter
- Input Current Harmonic < %5
- Silent Performance
- DSP Controlled
- Up to 0.99 Input Power Factor Correction
- Advanced LCD Panel
- Up to 500 Event History

Frequency	Converters	Technic	al Spec	ifications

10-800 kVA 3 Phase Input - 3 Phase Output (HF)

Series	MODEL	5010	5015	5020	5030	5040	5060	5080				
	Apparent Power(kVA)	10	15	20	30	40	60	80				
	Active Power (kW)	8	12	16	24	32	48	64				
	INPUT											
	Voltage	115/200 Vac	, 220/380 Vad	c, 254/440 Vac	c (3P+N+PE) or Optional S	Special Design	W/O Neutral				
	Voltage Tolerance			± %5%20	(Adjustable w	vith %1 step)						
	Frequency				50 or 60 Hz							
	Frequency Tolerance				%5							
	THDi				<5%							
4	Power Factor				0.99							
	OUTPUT											
	Voltage	115/200 Vac,	220/380 Vac	, 254/440 Vac	c (3P+N+PE) or Optional S	Special Desigr	W/O Neutral				
	Voltage Regulation			<±1%								
	Frequency	60 or 50 Hz±0.5%										
	Crest Ratio				3:1							
	Efficiency	>89% >90%										
	Power Factor	0,8										
	THDv <3% Linear Load, <5% Non-Linear Load											
and the	Overload %100 <load<%125 %125<load<%150="" 1="" 10="" for="" load="" min.,="">150 :Shut down</load<%125>											
	Short Circuit Protection Electronic Protection, Fuse											
	GENERAL FEATURES											
	Working Type	Static, Online, DSP Controlled										
	Topology	High Frequency PWM , IGBT Technology										
and the second	Display	128x64 Graphic LCD										
0	LED	6 pcs for Line, Charge, Battery, Inverter, Overload, Failure										
	Event Logs	Up to 500 Logged Event History										
	ENVIRONMENTAL											
	Operating Temperature				0 ~ 40 °C	•						
	Storage lemperature				-25 ~ +55 °	C						
	Relative Humidity			% 0-9	5 (Non-cond	ensing)						
	Altitude (without derating)			-	<1000 m							
	Cooling			FC	orced Air Cool	ing						
	Protection Level		- EE d	IP20	(Others on re	quest)						
			< 55 U	DA			<000DA					
		0	E0v70Ev111	n		E00v00	6v1010					
	Dimensions (WXDXD)mm.	11	0007907111	115	110	160	165	170				
		11	2	115	119	100	105	172				
	Functions		Para	llel Oneration	EPO Emerger	ncy Ston, Hea	ter					
	Rattery		Turu	60x12 Vdc Ma	aintenance Fr	e Dry Tyne						
	Isolation Transformer				t and/or Outn	ut						
	Communication		Dry	Contacte SN	MP Modem	RS232 RS/18	5					
	STANDARDS		Diy	contacto, on	wir, wiouerii,	10202, 11040	0					
	Harmonized Standards		EN 62	2040-1 (LVD)	EN 62040-2	(EMC), EN 62	040-3					
						,,, =						



FREQUENCY CONVERTER

Static frequency converters are used with the devices which cannot adapt to line frequency. Static converters are more economic and more technological solution than the conventional motor generator (Dynamic Converter) for these problems. Their efficiency is higher, but operation costs are lower. Frequency converter's dynamic response is very short, because of working with static components. They are DSP controlled and they can be developed according to customer needs. Battery can be added to system and converter can continue to work even in line failures. FN5000 Series converts 50/60 Hz Input Frequency to 60/50 Hz Output Frequency at desired voltage.

5800

5600

5500

FN 5000

Series

MODEL

Frequency Converters Technical Specifications

5160

5200

5250

5300

5400

10-800 kVA 3 Phase Input - 3 Phase Output (HF)

5120

5100

	Active Po
	INPUT
	Voltage
	Voltage T
EGRANNE	Frequenc
	Frequenc
	THDi
	Power Fa
	OUTPU
	Voltage
	Voltage R
	Frequenc
	Crest Rat
	Efficiency
	Power Fa
	THDv
	Overload
	Short Cir
	GENER/
	Working
	Topology
	Display
	LED
	Event Log
	ENVIRO

GENERAL SPECIFICATIONS

- IGBT Rectifier and Inverter
- Input Current Harmonic < %5
- Silent Performance
- DSP Controlled
- Up to 0.99 Input Power Factor Correction
- Advanced LCD Panel
- Up to 500 Event History

Apparent Power(kVA)	100	120	160	200	250	300	400	500	600	800
Active Power (kW)	80	96	128	160	200	240	320	400	480	640
INPUT										
Voltage	115/200	115/200 Vac, 220/380 Vac, 254/440 Vac (3P+N+PE) or Optional Special Design W/O Neutral								
Voltage Tolerance			:	± %5%	20 (Adjus	table with	n %1 step)		
Frequency					50 or	60 Hz				
Frequency Tolerance					%	5				
THDi					<5	5%				
Power Factor					0.9	99				
OUTPUT										
Voltage	115/200 Vac, 220/380 Vac, 254/440 Vac (3P+N+PE) or Optional Special Design W/O Neutral									
Voltage Regulation		<±1%								
Frequency					60 or 50 H	lz ±0.5%	D			
Crest Ratio					3	:1				
Efficiency			>89%					>90%	,	
Power Factor					0,	8				
THDv		<3% Linear Load, <5% Non-Linear Load								
Overload	%100	%100 <load<%125 %125<load<%150="" 1="" 10="" for="" load="" min.,="">150 :Shut down</load<%125>								
Short Circuit Protection	ion Electronic Protection, Fuse									
GENERAL FEATURES										
Working Type		Static, Online, DSP Controlled								
Topology		High Frequency PWM , IGBT Technology								
Display		128x64 Graphic LCD								
LED		6 pcs for Line, Charge, Battery, Inverter, Overload, Failure								
Event Logs				Up to	500 Logge	ed Event	History			
ENVIRONMENTAL										
Operating Temperature					0~	40 °C				
Storage Temperature					-25 ~	+55 °C				
Relative Humidity				% ()-95 (Nor	n-condens	sing)			
Altitude (without derating)					<10	00 m				
Cooling					Forced A	ir Cooling]			
Protection Level				IP	20 (Others	s on requ	est)			
Acoustic Noise	<65	dBA	<70	dBA	<74	dBA		<75	dBA	
PHYSICAL										
Dimesions (WxDxH)mm.	550X80	0X1335	68X100	7X1747	780X1260 X1900	1600X86	58X1800	2190X801 X2029	3216X8	68X1800
Weight (kg)	290	315	490	540	870	1300	1370	1480	1690	1750
OPTIONS										
Functions			Para	llel Opera	tion, EPO I	Emergen	cy Stop, H	leater		
Battery		60x12 Vdc Maintenance Free Dry Type								
Isolation Transformer					Input and/	or Outpu/	t			
Communication	Dry Contacts, SNMP, Modem, RS232, RS485									
STANDARDS	S									
Harmonized Standards	EN 62040-1 (LVD), EN 62040-2 (EMC), EN 62040-3									



FREQUENCY CONVERTER

Static frequency converters are used with the devices which cannot adapt to line frequency. Static converters are more economic and more technological solution than the conventional motor generator (Dynamic Converter) for these problems. Their efficiency is higher, but operation costs are lower. Frequency converter's dynamic response is very short, because of working with static components. They are DSP controlled and they can be developed according to customer needs. Battery can be added to system and converter can continue to work even in line failures. FN5000 Series converts 50/60 Hz Input Frequency to 60/50 Hz Output Frequency at desired voltage.

MADRA

Series

Static Voltage Stabilizers Technical Specifications 7,5-2000 kVA 1 Phase Input - 1 Phase Output / 3 Phase Input - 3 Phase Output

MODEL	1075	1015	1030	3030	3060	3100	3250	3500	31000	31500	32000
Power (kVA)*	7,5	15	30	30	360	100	250	500	1000	1500	2000
INPUT											
Voltage	220 Vac (230	/240 Optional) (1Ph+N+GND)		380 Va	ic (400/4	15 Vac (Optional)	(3P+N+	⊢GND)	
Voltage Tolerance	17	175-260 Vac 300-450 Vac									
Frequency		50 Hz									
Frequency Tolerance						±5%					
Current (A)	45	90	180	60	120	100	475	950	1900	2850	3800
OUTPUT											
Voltage	220 Va	220 Vac (1P+N+GND) 380 Vac (3P+N+GND)									
Voltage Tolerance		± 2%									
Correction Speed		5000 V/sn.									
Response Time						20 ms.					
Current (A)	35	68	135	45	90	150	380	750	1500	2250	3000
Efficiency (100% load)		>97%									
THDv						<3%					
LCD CONTROL PANEL											
Туре				2x16/	4x20 A	lpha Nun	neric LCE) Panel			
Measurement				Input	, Output	and Stati	us Inform	nation			
Warnings				Н	igh Input	, Low Inp	out, Error				
PROTECTIONS											
Output Voltage					±%8	3 (Adjust	able)				
Over Load					1 m	in. for %	150				
Thyristor Error					Syste	m do not	t work				
Over Temperature						Yes					
Noise Filter					EN	/II/RFI Fil	ter				
Bypass						Manuel					
ENVIRONMENTAL											
Operating Temp.					-15	$5 \sim +50$	O°C				
Humidity					%95 (N	lon Cond	ensing)				
Cooling						Fan					
Protection Class		IP20									
Acoustic Noise		<55 dBA									
PHYSICAL											
Dimensions (WxDxH) cm.	27x47x48	27x47x48	40x47x70	40x80x70	70x70x110	70x70x120	140x70x135	180x95x160	240x100x210	270x110x210	270x110x210
Weight (kg)	25	55	95	90	125	185	900	1900	2900	3650	4000

STANDARDS

Standards

EN50091-1/EN62040-1(LVD) EN50091-2/EN62040-2 (EMC)

*Other Powers are available per request.



FEATURES

- Digital Microprocessor Control
- 20 ms Response Time
- · Zero Transfer Time
- Low/High Voltage Protection,
- Over Temp. Protection
- EMI/RFI Filter
- LCD Panel

STATIC VOLTAGE STABILIZERS

MADRA Series Automatic Voltage Regulator is a static voltage regulator and do not include any moving parts. Voltage regulation is realized by microprocessor control via digital technology within milliseconds. It has not any corroding part where as servo regulator have these parts. MADRA Series protects itself and your critical loads at low/high voltage levels. There are RFI and EMI filters at all power levels. ESISPOWER Static Voltage Regulators are used at Industrial machines, Radio and TV transmitters GSM Base stations, Communication Systems, Hospitals, Studios, etc.

TOROS

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Servo Voltage Stabilizers Technical Specifications

1-3250 kVA 1 Phase Input / 1 Phase Output - 3 Phase Input / 3 Phase Output

Series	MODEL (See Below Table)	1 PHASE	3 PHASE					
	Power Range	1-1000 kVA	3-3250 kVA					
	Input Voltage Range	150-250 Vac*	275-450 Vac*					
	Min. Input Range (Optional)	120-230 Vac	210-400 Vac					
	Output Voltage	220 Vac (Optional 230-240Vac)	380 Vac (Optional 400-415 Vac)					
	Output Voltage Tolerance	±	2%					
	Frequency	50 Hz (On Request 60 Hz)						
	Correction Speed	150 V/sn.						
	Control Method	Microprocessor Controlled						
	Display	Input / Output Voltage and Currents						
•	Efficiency	>%95						
1	Conductor Type	Aluminium (On Request Copper)						
	High Voltage Protection	Optional						
	Phase Protection Unit	Optional						
= •	Over Temperature Protection	Optional						
Ξ	Over Current Protection	Optional						
Ξ	Short Circuit Protection Unit	Optional						
Ξ	Operating Temperature	-10 ∼ +40°C						
Ξ	Storage Temperature	-25 ∼ +60°C						
Ξ	Altitude	<3000 m.						
E	Protection Class	IP 20 (21,22,31,44,31,44,54 Optional)						
-	Acoustic Noise	<60 dBA (from 1 m.)						
Ξ	Standards	TS EN 61000, EN 55	011:2009, EN 1558-1					

* Other Voltage ranges can be manufactured per request

SINGLE PHAS	E MODELS	THREE PHASE MODELS						
MODEL NO	POWER	MODEL NO	POWER	MODEL NO	POWER			
TOROS 1001	1 kVA	TOROS 30003	3 kVA	TOROS 30250	250 kVA			
TOROS 1002	2 kVA	TOROS 30006	6 kVA	TOROS 30300	300 kVA			
TOROS 1004	3,5 kVA	TOROS 30010	10,5 kVA	TOROS 30400	400 kVA			
TOROS 1005	5 kVA	TOROS 30015	15 kVA	TOROS 30500	500 kVA			
TOROS 1008	7,5 kVA	TOROS 30023	22,5 kVA	TOROS 30600	600 kVA			
TOROS 1010	10 kVA	TOROS 30030	30 kVA	TOROS 30800	800 kVA			
TOROS 1015	15 kVA	TOROS 30045	45 kVA	TOROS 31000	1000 kVA			
TOROS 1020	20 kVA	TOROS 30060	60 kVA	TOROS 31200	1200 kVA			
TOROS 1025	25 kVA	TOROS 30075	75 kVA	TOROS 31600	1600 kVA			
TOROS 1030	30 kVA	TOROS 30100	100 kVA	TOROS 32000	2000 kVA			
TOROS 1040	40 kVA	TOROS 30150	150 kVA	TOROS 32500	2500 kVA			
TOROS 1050	50 kVA	TOROS 30200	200 kVA	TOROS 33250	3250 kVA			



GENERAL SPECIFICATIONS

- Wide power range from 1kVA to 3250kVA
- Provides stable voltage to your critical loads like as industrial and military devices, CNC machine tools, elevators, medical system etc.
- Excellent Voltage Regulation.
- TOROS Series stabilizers quickly pay itself with his long-lasting and maintenance free structure.
- High speed correction by PWM control technology.



RITAR

RT-RA Series Technical Specifications AGM VRLA Batteries Series MODEL Voltage Ah(20Hours) Width Depth Height Weight RT1213 12 Volt 1.3 Ah 43 97 52 0.60 kg RT1223 12 Volt 2.3Ah 35 178 67 0.97 kg RT1232 12 Volt 3.2 Ah 67 135 1.30 kg 60 12 Volt 4.5 Ah 70 90 101 1.40 kg RT1245 12 Volt 7.2 Ah 2.15 kg RT1272 65 151 94 RT1270 12 Volt 7 Ah 65 151 94 2.10 kg 12 Volt 9 Ah 2.55 kg RT1290 65 151 94 12 Ah 3.60 kg RT12120 12 Volt 98 151 95 5.00 kg RT12180 12 Volt 18 Ah 77 181 167 RT12260 12 Volt 26 Ah 175 166 125 8.10 kg RA 12-40 12 Volt 40 Ah 198 171 13.50 kg 166 55 Ah 138 229 210 18 kg RA 12-55 12 Volt 350 180 RA 12-65 12 Volt 65 Ah 167 21kg RA 12-70 12 Volt 70 Ah 167 350 180 23 kg RA 12-80 12 Volt 80 Ah 167 350 180 24 kg RA 12-90 90 Ah 169 307 229 28.5 kg 12 Volt RA 12-100 12 Volt 100 Ah 172 328 222 30 kg RA 12-120 12 Volt 120 Ah 177 407 225 35 kg 150 Ah 170 483 240 45 kg RA 12-150 12 Volt 522 240 60 ka RA 12-200 12 Volt 200 Ah 240



RT Series

RT series is the general purpose battery with 5 years design life for float service. It meets IEC and JIS standards. With up-dated AGM valve regulated technology and high purity raw materials, the RT series battery has reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security systems applications.

Product Features

- · Capacity Range: 0.8Ah-28Ah
- Voltage Class: 6 V/12 V
- Long Design Life (25°C): 5 years; 10 years (L type)

RT GENERAL SPECIFICATIONS

- Low self-discharge rate \leq 3% per month
- Good high rate discharge performance
- High sealed reaction efficiency: \geq 99%
- Wide operation temperature range: -20°C- 60°C
 Structure: compact design, shorter internal
- connectors between cells, thus low internal resistance
- Plate: Pasted flat type, with patent formula of AM
 Torminal, two or more typels terminals are
- Terminal: two or more type's terminals are convenient for selection
- Separator: using improved AGM separator, makes lower resistance, higher assembling pressure to increase cycle life;
- Battery Case: made of high strength ABS (UL94-HB) and UL94-VO is optional;
- Terminal Sealing: double sealing technics



RA Series

RA Series is the general purpose battery with 10 years design life in float service. It meets IEC, JIS and BS standards. With up-dated AGM valve regulated technology and high purity raw materials, the RA series battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security system applications.

Product Features

- Capacity Range: 33Ah-260Ah
- Voltage Class: 6V/12V
- Long design life (25°C): 10 years
- Low self-discharge rate: ≤ 3% / month

RA GENERAL SPECIFICATIONS

- Capacity Range: 33Ah-260Ah
- Voltage Class: 6V/12V
- •Long design life (25°C): 10 years
- Low self-discharge rate \leq 3% per month
- Good high rate discharge performance
- •High sealed reaction efficiency: \geq 99%
- Wide operation temperature range: -20°C 60°C
- Structure: compact design, lower internal resistance
- Plate: Pasted flat type, with patent formula of AM
- Terminal: two or more type's terminals are
- convenient for selection
- Separator: using improved AGM separator, makes lower resistance, higher assembling pressure to increase deep cycle life;
- •Battery Case: made of high strength ABS (UL94-HB) and UL94-VO is optional;
- Terminal Sealing: double sealing technics



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Head Office / Factory: Dudullu OSB, Esenkent Mah. Baturalp Sok. No:14 34776 Ümraniye - Istanbul / Turkiye Tel: +90 216 540 90 00 Fax: +90 216 540 90 10

www.esis.com.tr esis@esis.com.tr

