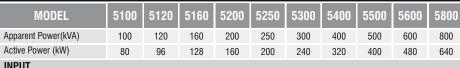


FN 5000

Frequency Converters Technical Specifications

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

Series





MODEL	5100	5120	5160	5200	5250	5300	5400	5500	5600	5800	
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 Vac, 220/380 Vac, 254/440 Vac (3P+N+PE) or Optional Special Design W/O Neutral										
Voltage Tolerance	± %5%20 (Adjustable with %1 step)										
Frequency	50 or 60 Hz										
Frequency Tolerance	%5										
THDi	<5%										
Power Factor	0.99										
OUTPUT											
Voltage	115/200	Vac, 220,	/380 Vac,	254/440	Vac (3P+	-N+PE) o	r Optiona	l Special [Design W/	O Neutral	
Voltage Regulation	<±1%										
Frequency	60 or 50 Hz ±0.5%										
Crest Ratio	3:1										
Efficiency	>89% >90% 0,8 <3% Linear Load, <5% Non-Linear Load %100 <load<%125 %125<load<%150="" 1="" 10="" for="" min.,="" min.<="" td=""><td></td></load<%125>										
Power Factor	0,8										
THDv	<3% Linear Load, <5% Non-Linear Load										
Overload											
Short Circuit Protection	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 Logged Event History										
ENVIRONMENTAL											
Operating Temperature	0 ~ 40 °C										
Storage Temperature	-25 ∼ +55 °C										
Relative Humidity	% 0-95 (Non-condensing)										
Altitude (without derating)	<1000 m										
Cooling	Forced Air Cooling										
Protection Level	IP20 (Others on request)										
Acoustic Noise	<65 dBA <70 dBA <74dBA <75dBA										
PHYSICAL											
Dimesions (WxDxH)mm.	550X80	0X1335	68X100	7X1747	780X1260 X1900	1600X86	88X1800	2190X801 X2029	3216X86	68X1800	
Weight (kg)	290	315	490	540	870	1300	1370	1480	1690	1750	
OPTIONS											
Functions	Parallel Operation, EPO Emergency Stop, Heater										
Battery	60x12 Vdc Maintenance Free Dry Type										
Isolation Transformer		Input and/or Output									
Communication	Dry Contacts, SNMP, Modem, RS232, RS485										
	, , ,										

EN 62040-1 (LVD), EN 62040-2 (EMC), EN 62040-3

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



STANDARDS

Harmonized Standards

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.