

BORA

3 Phase

Bora Series Technical Specifications

3 Phase Input Rectifier / Battery Charger with Transformer

MODEL (Can Bolow Tables)

Series



		MODEL (See Below Tables)*							
INPUT									
Voltage		380 (Optional 400/415/440) Vac (3P+N+PE)							
Voltage Tolerance		± 20%							
Frequency		50/60 Hz (Automatic Selection)							
Frequency Tolerance		± 5 Hz							
OUTPUT									
Voltage Range (Vdc)		24, 48,110, 220 Vdc (Others on Request)							
Voltage Regulation		± 2%							
Output Currents (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							
Battery Charge Mode		Float Charge, Boost Charge, Equalizing Charge							
		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		Dry Contacts, (Optional MODBUS)							
ENVIRONME	NTAL								
Operating Temperature		0~+40°C							
Storage Temperature		-20 ~+70 °C							
Relative Humidty		% 0-95 (Non-condensing)							
Cooling		Forced Cooling with Fan							
Protection Level		IP20 (Others on Request)							
Acoustic Noise		55 dBA							
PHYSICAL									
Dimensions (HxWxD) mm.	Up to 10 kW	580x470x870							
	Up to 33 kW	650x1100x700							
	Others	Ask for Other Models							
STANDARDS	3								
Harmonized 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													
VA	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.