

BORA
1 Phase
Series

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

MODEL (See Below Tables)*



INPUT	
Voltage	220 Vac (Optional 230/240 Vac)
Voltage Tolerance	± 20%
Frequency	50 / 60 Hz (Automatic Selection)
Frequency Tolerance	± 5 Hz
OUTPUT	
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)
Ripple	< 5% (Without Battery)
Efficiency	Up to 88%
GENERAL	
Control	Microprocessor Controlled
Protections	Short Circuit, Over Current, Over Temperature, Output 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, 6 Buttons, 6 pcs LED
Isolation	Input-Output: 2000 V, Input/Output-Ground: 500V
Communication	Dry Contacts, (Optional MODBUS)
ENVIRONMENTAL	
Operating Temperature	0 ~ +40 °C
Storage Temperature	-20 ~ +70 °C
Relative Humidity	% 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 1,2 kW 500x370x630 Up to 10 kW 580x470x870
STANDARDS	
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 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.