ESISPOWER

BORA

Bora Series Technical Specifications 1-44 kW Battery Charging Rectifiers

Series



Up to 1,2 kW



Up to 10 kW



Up to 33 kW

MODEL* (See Below Tables)	1 PHASE	3 PHASE						
INPUT								
Voltage	220 VAC ± 20%	380 VAC \pm 20%						
Frequency	50 Hz	± 5%						
OUTPUT								
Voltage Range (Vdc)	12, 24, 48	, 110, 220						
Voltage Regulation	±:	2%						
Output Currents (A)	10, 12, 15, 20, 25, 30, 40, 50,60, 80, 100	30,40,50,60,80,100,150,200,250,300,350,400,600						
Ripple	< 5% (With	out Battery)						
Efficiency	80 -	88%						
GENERAL								
Control	Microprocess	or Controlled						
Protections	Short Circuit, Over Current, Over Temperature, Ouput Voltage Low/High, DC Ground Missing Warning, Overload Warning Contact							
Battery Charge Mode	Automatic Charge							
, ,	Float Charge: 2 - 2.45V/Cell (Depends Battery Type)							
Display Control	128x64 Graphic LCD, 4 key, 6 pcs LED							
	0N/0FF Switch at Front Panel							
Isolation	Input-Output: 2000 V, Input-Ground: 500V							
ENVIRONMENTAL	0	50.90						
Operating Temperature	0+50 °C							
Storage Temperature	-20+70 °C							
Relative Humidty	0-98% (Non-condensing)							
Cooling	Forced Cooling with Fan							
Protection Level	IP20 <55 dBA							
Acoustic Noise	<55	ara						
PHYSICAL								
Dimensions (WxDxH) cm	Up to 1.2 kW 500x370x630; up to 10 kW 580x470x870; up to 33 kW 650x1100x700 (ask for other models)							
STANDARDS								
Harmonized Standards	EN 62040-1,EN612040	LVD), EN61204-3 EMC						

^{*}Other models can be manufactured per request.

BATTERY CHARGING RECTIFIERS

BORA series rectifiers are designed by today's technology for charging batteries and for the DC energy necessity of the equipments 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 shock inductors.

GENERAL SPECIFICATIONS

- Thryristor phase control technology
- Voltage controlled automatic charge
- Usage as a DC power source
- Single phase and three phase wide power range
- High efficiency and reliablity
- Modular structure
- Electronic protections

	SINGLE PHASE MODELS										
٧	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	

	THREE PHASE MODELS										
V	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	3024-200	3024-300	3024-400	-
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	-
220	3220-30	3220-40	3220-50	3220-60	3220-100	3220-150	3220-200	3220-250	3220-300	-	-