



RECTIFIERS & BATTERY CHARGER

1 PHASE	12/24VDC: 10A-300A, 36/48VDC: 10A-150A 110VDC: 10A-200A, 220VDC: 10A-100A
3 PHASE	12VDC: 50A-200A, 24VDC: 30A-300A 48VDC: 30A-200A, 110/220VDC: 30A-500A



TOWER



LCD DISPLAY



TRANSFORMER
BUILT-IN



EASY
SERVICE



INDUSTRY



TRANSPORTATION



MARITIME



TELE-
COMMUNICATIONS



RECTIFIERS & BATTERY CHARGER

Transformer based, SCR controlled battery charging devices are AC/DC rectifiers with automatic constant voltage and constant current properties. The isolation transformer and the load and batteries are completely isolated from the grid system.

- ♦ Internal isolation transformer at input
- ♦ Float charge, equalizing charge and boost charge modes
- ♦ DC Low / High, Line Failure, Over Temperature, Short Circuit protections
- ♦ Operation as voltage source or current source
- ♦ Programmable current limitation
- ♦ Automatic and manual charge modes
- ♦ Low output voltage ripple and high reliability
- ♦ Calibration of measurements from front panel
- ♦ Programmable dry contacts
- ♦ 256 Real Time Event Log with Detailed Parameters
- ♦ Advanced Communication Capabilities
- ♦ Soft start

RECTIFIERS & BATTERY CHARGER

MODEL			
	Phase	3 Phase	1 Phase
Input			
	Voltage	190VAC / 200VAC / 380VAC / 400VAC / 415VAC	110VAC / 127VAC / 208VAC / 220VAC / 230VAC / 240VAC
	Input Voltage Tolerance	± 15% (± 20% optional)	
	Nominal Frequency	50/60Hz (5%)	
	Transformer	Galvanically isolated	
	ITHD	%30	
	Input Protection	Overcurrent protection, Overvoltage protection	
Output			
	Output Voltage	24 VDC / 48 VDC / 110 VDC / 220 VDC	
	Output Voltage Adjustment	100% - 120% of Nominal Output Voltage	
	Output Current Adjustment	10% - 100% of Nominal Output Current	
	Battery Charging Current Adjustment	10% - 100 % of Nominal Output Current	
	Boost Charger Voltage	100% - 120% of Floating Output Current	
	Boost Voltage(V/C)	2,4 Lead Acid Battery 1,60 NiCd Battery	
	Float Voltage(V/C)	2,23 Lead Acid Battery 1,40 NiCd Battery	
	Nominal Output Current	10A to 500A	
	Maximum Output Current	100 % of Nominal Output Current	
	Output Protection	Electronic Short Circuit / Over Voltage / Over Temperature / Over Current Reverse Voltage (Reverse Connection) Protection	
General			
	Topology	Isolation Transformer, Thyristor control	
	Cooling	Fan forced cooling (Standard), Natural cooling (Optional)	
	Isolation voltage	1500 or 3000 VAC input/chassis and output/chassis	
	Efficiency	≥ 85% (full load)	
	Protection Level	IP20 (Higher IP Ratings are optional)	
	Measurements	Load output voltage and current / Battery output voltage and current / Utility voltage / Line voltage / Frequency / Power factor (Optional) / Batt. ambient temperature (Optional)	
	Options	Individual outputs for battery at load / Additional LVD Contactor Separating Load and Battery from each other / DC +/- Ground Leakage Protection / Battery Monitoring / Management System (BMS) / Analog Measurement Indicator	
Environment			
	Acoustic Noise	45 - 55 dB (according to power rating)	
	Storage Temperature	-20°C - +70°C	
	Operating Temperature	-5°C - +50°C	
	Humidity	0 - 95% Non-condensing	
	Altitude	1000m (-1% Power for every 100m after 1000m) Max. 4000m	
Communication & Paralleling			
	Communication	RS232 (Standard), Dry Contacts (Optional), RS485 (Optional), Modbus TCP (Optional), GSM (Optional)	
	Paralleling	Redundant Operation with Active or Passive Load Sharing Option	
Compliance			
	Reference Product Standards	EN60146-1-1, EN62477-1 (LVD), EN61204-3, EN61003-3-12, EN61003-3-11 (EMC)	

The company reserves the right to change specifications and designs without notice.



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