INNOVASIS
INNOVATIVE ENERGY SYSTEMS



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 & Parallelling		
Communication	RS232 (Standard), Dry Contacts (Optional), RS485 (Optional), Modbus TCP (Optional), GSM (Optional)	
Paralleling	Redundant Operation with Active or Passive Load Sharing Option	
Compliance		
Referance 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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