

tuncmatik

Industrial Rectifier

12-600 VDC / 10-1000 A (1 Ph)
12-600 VDC / 10-5000 A (3 Ph)

RECTIFIER



GENERAL SPECIFICATIONS

- 6 pulse thyristor controlled rectifier.
- Thyristor/IGBT technology.
- Galvanic isolation transformer at the input.
- Temperature compensated battery charging.
- Hot standby configuration.
- Advanced 2x16 or 4x20 LCD Panel providing detailed information on Input/Output voltage, battery voltage and charging current.
- Interior temperature and setting user selected parameters.
- Programmable dry contact outputs (NO / NC).
- DSP (Digital Signal Processor) control.
- RS232 and or RS485, ModBus Communication and remote monitoring.
- Audible alarm
- Advanced automatic and manual battery test system.
- Overload and short circuit protection.
- Compatible with International Standards.
- Float boost and equalize charge.

OPTIONS

- Parallel Operation
- Power Analyzer (Input or Output) Single (VA, W, PF, V, A etc.)
- Analog Gauges (V & A meter)
- TFT Touch Panel Display
- Mimic Panel
- Battery Discharging facility
- Battery charger operation
- Battery Temp. Compensation Temperature Measurement
- Voltage Dropper
- LVD
- DC Earth Leakage Relay
- SRC Protection Fuse+Aux (Rapid Fuse)
- Internal Cabinet Lighting (LED 24V 20W)
- Internal Cabinet Heater (250W)
- Input/Output voltage, Current transducers (4-20mA and 0-10V simultaneously).



- Auto and manual charge mode.
- <1% voltage ripple (<4% on 1 phase).
- Operating available while mains fail.
- Current limiting (adjustable).
- Automatic start & fault recovery.
- Smart fault diagnosing.
- Alarm logging with date and time.
- 200 recorded event history.
- Halogen free cable.
- 20 years design life.

- Fan failure Monitoring
- AC Earth Fault
- Dust filter
- Input Three Phase Snubber Board
- Lifting Lugs
- Coating on Boards
- Up to IP54
- Overseas Packing
- SNMP
- Alarm and Comm. Interface (MODBUS RS232 +4 Relay)
- Alarm and Comm. Interface (MODBUS RS485 +4 Relay)
- Alarm and Comm. Interface (MODBUS TCP IP +4 Relay)
- Alarm and Comm. Interface (Extra +4 Relay) (Max 12)

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MODEL	1 Phase	3 Phase
INPUT		
Voltage	110-275 VAC ±15% VAC	190-480 VAC ±15% VAC
Frequency	50/60Hz or 400Hz ±10%	
Rectifier Type	Half Bridge/Full Bridge/IGBT	6 pulse/12 pulse/IGBT
THDi	35%	32% (6p)/10-12% (12p)/6% (Filtered)
OUTPUT		
Output Voltage	12-600 VDC	
Output Current	10-1000A	10-5000A
Efficiency	78-85%	85-93%
Voltage Stability	<1%	
Overload	continues at 110%, 10mins at 110-125%, 1min at 125-150%	
Ripple	<4%	<1%
BATTERY		
Type	VRLA / OPzV / OPzS / Ni-cd	
Charge Voltage	VRLA/OPzV/OPzS: 2,25 (Float) per cell NiCad: 1,42 (Float), 1,5-1,7 (Boost/equalize) per cell	
Charge Current	VRLA/OPzV/OPzS: 10-15% of battery capacity (adjustable) NiCad: 20% of battery capacity (adjustable)	
Boost Charge Timer	0-20 hours adjustable (with Auto Boost inhibit)	
SYSTEM FEATURES		
Measurements	Input Frequency, Input Voltage, INput Current, DC Output Voltage, DC Output Current	
Alarms	Output Too Low/Low/High, Overload, Overcurrent, Over Temperature, Short Circuit, Memory, DSP Error	
Software	Management software	
Communication	RS232, Dry Contact x4 to (OPT: x16)	
LED Indicators	Operation of Alarms	
Front Panel	LED/LCD Panel	
Battery Protection	Temperature compensating charge / LVD	
Input/Output Protection	Auxiliary trip contacts, TMS or LS/G Breakers, AC or DC earth fault, DROPPER	
Internal Protection	Phase sequence protection, SCR protection rapid fuses, Electronical Short Circuit protection	
Paralel Operation	Up to 3	
Cooling System	Fan forced (Dual redundant), (OPT: Natural Cooling)	
Cable Entry	Bottom (OPT: Top, Rear, Side)	
Cabinet Color	RAL7032,7035 (OPT: Others)	
Protection	IP20	
ENVIRONMENTAL		
Operation Temperature	0 - 50°C	
Storage Temperature	-25 - 70°C	
Relative Humidity	up to 90% (non-condensing)	
Altitude	1000m from MSL (1% derate each 100m after 1000m)	
Noise Level	50 to 73 dBA (depending on rating)	

**Product properties may change without a notice.*