

PSC06 Series

1000 - 6000 WATTS 2U ULTRA COMPACT BATTERY CHARGERS

FEATURES

- 1000W - 6000W
- Configurable Battery Charging System
- 2U 19" Rack Mounting
- Network Monitoring
- N+1 Operation
- Fully Featured Telecom Grade Rectifier



SPECIFICATIONS

INPUT

AC input	240V AC (90-300V) Single phase or 415V AC Three phase (shelf type dependant)*
Frequency range	45-66 Hz
Power factor	>0.99 full load
Termination	Single phase, 6 - 10mm ² L, N, E tunnel terminals* Three phase, 6 - 10 mm ² L1,L2,L3,N,E terminals * (Single phase by linking line terminals)

DC OUTPUT

Nominal voltage	48V (+48V or +24V optional)*
Rated system output power	6-8k Watts @ -48V (refer to table) 3-4k Watts @ 24V
Polarity	Positive earth, (negative earth option available)*

DC DISTRIBUTION

Load	Standard Shelf configuration. (Customized configuration available)*
Battery	Standard Shelf configuration (Customized configuration available)*
Breaker fail detection	Electronic fail detection on both load and battery breakers
DC terminals	Rear Connect DIN Rail
Load	Tunnel terminals 6 mm ² to 16mm ² *
Battery	Tunnel terminals 35mm ² *
Low voltage disconnect	See Standard Shelf configuration.

ENVIRONMENTAL REQUIREMENTS

Ambient Temperature	-20°C to +70°C
Storage Temperature	-30°C to +85°C
Humidity	5-95% RH (non-condensing)
Altitude	<2,500m at full power

MECHANICAL

Dimensions W, H, D	482.6mm (19" mount), 89.0mm (2U), 390.0mm
Weight	9kg (excluding rectifier modules)
Shipping Dimensions W, H, D	540.0mm, 150.0mm, 435.0mm
Shipping Weight	10.5kg (excluding rectifier modules)

MONITORING & CONTROL

Display	Multi-lingual alpha numeric backlit display
Communications	Serial: 1x USB port on front panel for local PC interface TCP/IP: Ethernet interface for communication using SNMP protocol and internal web based configurator* Modbus: Supported via TCP/IP*
LED Indicators	Green: Power on/monitor OK Yellow: Non urgent alarm Red: Urgent alarm
Audible	90dBA buzzer mappable to user defined conditions
Controls	3x push buttons for parameter setting or viewing on front panel
Signal Inputs	Serial bus for rectifier control and interface to peripheral modules 6x digital inputs 2x temperature sensors (one fitted by default)
Alarms	6x alarm relays, 5x of which can be mapped for customised alarm settings
Alarm Contacts	0.3A 100V volts free changeover contacts
Logging Capacity	Periodic log, 16,384 records (dependant on number of parameters logged) Event log, 16,384 records (dependant on number of parameters logged)
Connections	Relay outputs, mini combicon to accept 1.5mm ² wire USB port, USB mini B

*TCP/IP and modbus options only available with SM36 supervisory module.

CONFIGURATION AND OPTIONS

Rectifiers	RM2048XE: 2.0kW modular rectifier, 230V AC input, 48V DC output, 41.7A maximum output RM2048HE: 2.0kW modular rectifier, 230V AC input, 48V DC output, 41.7A maximum output RM2048/24: 2.0kW modular rectifier, 230V AC input, 48 or 24V DC output, 41.7A maximum output RM1860/48: 1.8kW modular rectifier, 230V AC input, 60 or 48V DC output, 30.0A maximum output
Supervisory Modules	SM35: standard monitor featuring full temperature compensation, automated and manual battery testing/equalisation SM36: enhanced monitor featuring full temperature compensation, automated and manual battery testing/equalisation with TCP/IP
ARBP-1M	Metal rectifier blanking panel
ASM-ABM24(-24-48-60)	Battery condition monitor for 24, 48 or 60V battery strings
ASM-AC3P	AC mains monitor

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SELECTION TABLE

MODEL NUMBER	MAX RECTIFIERS	MAX SHELF POWER	DC DISTRIBUTION
PSC06 V1	3	24, 48 or 60VDC 6.0kW Positive or Negative Earth	6 x load circuit breakers (6-63A) 2 x battery circuit breakers (max 63A) 125A magnetically latching battery LVD
PSC06 V2	3	24, 48 or 60VDC 6.0kW Positive or Negative Earth	16 x load circuit breakers (2-30A) 2 x battery circuit breakers (max 100A) 125A magnetically latching battery LVD

*System part numbers are dependent on configuration options. For final system part numbers consult our sales staff for configuration advice.

TECHNICAL ILLUSTRATIONS

