

1U Ultra Compact System

PSC04 SERIES - TELECOM RECTIFIER SYSTEMS

FEATURES

- 1000W - 4000W
- Configurable Battery Charging System
- 1U 19" Rack Mounting
- Network Monitoring
- N+1 Operation
- System Monitoring
- Load & Battery MCBs
- Battery LVD
- Customized shelf configurations available
- Fully Featured Telecom Grade Rectifier

SPECIFICATIONS

INPUT	
AC input	240V AC (90-300V) Single phase
Frequency range	45-66 Hz
Power factor	>0.99 full load
Termination	PSC04 V1: 1 phase, LNE 10mm ² , tunnel terminals PSC04 V2: 1 phase, LNE 6mm ² , tunnel terminals
OUTPUT	
Nominal voltage	24Vdc, 48Vdc, 60Vdc
Output power	4kW @ 48Vdc 2kW @ 24Vdc
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 connected tunnel terminals PSC04 V1, load and battery 10mm ² PSC04 V2 load and battery 6mm ²
Low voltage disconnect	See Shelf configuration System
ENVIRONMENTAL	
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	482.6mm (standard 19" module), 44.45mm (1U), 350mm, W,H,D
Weight	5kg (excluding rectifier modules)
Shipping Dimensions	540.0mm, 95.0mm, 400.0mm, W,H,D
Shipping Weight	6.0kg (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 & 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
ARB-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	STANDARD DC DISTRIBUTION
PSC04 V1	2	24, 48 or 60VDC 4.0kW Positive or negative earth	1 x load circuit breaker (6-63A) 1 x battery circuit breaker (max 63A) 80A Magnetically latching battery LVD
PSC04 V2	2	24, 48 or 60VDC 4.0kW Positive or negative earth	3 x load circuit breaker (2-30A) 2 x battery circuit breaker (max 30A) 80A 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

PSC04 V1



PCS04 V2

