

# PSC 10 SERIES SYSTEMS 8.0kW 48V DC



## ELECTRICAL

AC Input:	Single phase (refer to rectifier spec for full details)
Frequency Range:	45-66Hz
Power Factor:	>0.99 (full load)
Termination:	Single phase L, N, E 16mm <sup>2</sup> terminal blocks, surge protection (40KA 8/20µsec)
DC Output:	Nominal Voltage: 24, 48 or 60V DC Max. Output Power: 8.0kW Polarity: Positive or negative earth
DC Distribution:	9x load circuit breakers (6-63A) 2x battery circuit breakers (max 125A)
Breaker Fail Detection:	Electronic fail detection
DC Terminals (Front Connected):	Load: 16mm <sup>2</sup> front connect tunnel terminals Battery: 35mm <sup>2</sup> front connect tunnel terminals
LVD:	150A magnetically latching battery LVD

## 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 comicon to accept 1.5mm <sup>2</sup> wire USB port, USB mini B



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

## ENVIRONMENTAL REQUIREMENTS

Ambient Temperature:	-20°C to +70°C (maximum output power is derated above +50°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), 133.3mm (3U), 350.0mm
Weight:	11.0kg (excluding rectifier modules)
Shipping Dimensions W, H, D:	540.0mm, 150.0mm, 435.0mm
Shipping Weight:	11.5kg (excluding rectifier modules)

## COMPLIANCES

Safety:	EN60950
Immunity:	CISPR24
Emissions:	CISPR22
AC Harmonics:	EN61000-3-2
AC Flicker and Fluctuation:	EN61000-3-3
Other:	CE & RoHS compliant



## PART NUMBERS

PSC080403:	Compact system, 4x modular rectifiers, 9x load 2x battery MCB's, SM36 supervisory module
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\*System part numbers are dependent on configuration options. For final system part numbers consult our sales staff for configuration advice.

## CONFIGURATION OPTIONS

Rectifiers:	To be advised at time of order 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

## OPTIONS

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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