PSC04 SERIES
SYSTEMS 4.0kW 48V DC

enatel energy

ELECTRICAL

	PSC04 V1	PSC04 V2
AC Input:	Single phase (refer to rectifier spec for full details)	Single phase (refer to rectifier spec for full details)
Frequency Range:	45-66Hz	45-66Hz
Power Factor:	>0.99 (full load)	>0.99 (full load)
Termination:	Single phase, L, N, E 10mm² tunnel terminals	Single phase, L, N, E 6mm² tunnel terminals
DC Output: Nominal Voltage: Max. Output Power: Polarity:	24, 48 or 60V DC 4.0kW Positive or negative earth	24, 48 or 60V DC 4.0kW Positive or negative earth
DC Distribution:	1x load circuit breaker (6-63A) 1x battery circuit breaker (max 63A)	3x load circuit breaker (2-30A) 2x battery circuit breaker (max 30A)
Breaker Fail Detection:	Electronic fail detection	Electronic fail detection
DC Terminals (Rear Connected): Load: Battery:	10mm² rear connect tunnel terminals 10mm² rear connect tunnel terminals	6mm² rear connect tunnel terminals 6mm² rear connect tunnel terminals
LVD:	80A magnetically latching battery LVD	80A magnetically latching battery LVD

MONITORING & CONTROL

Display:	Multi-lingual alpha numeric backlit display
Communications: Serial: TCP/IP: Modbus:	1x USB port on front panel for local PC interface Ethernet interface for communication using SNMP protocol and internal web based configurator* Supported via TCP/IP*
LED Indicators: Green: Yellow: Red:	Power on/monitor OK Non urgent alarm 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 1.5mm² wire USB port, USB mini B

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

PSC04 V1

PCS04 V2

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

COMPLIANCES

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

MECHANICAL

Dimensions W, H, D:	482.6mm (19" mount), 44.45mm (1U), 350.0mm
Weight:	5.0kg (excluding rectifier modules)
Shipping Dimensions W, H, D:	540.0mm, 95.0mm, 400.0mm
Shipping Weight:	6.0kg (excluding rectifier modules)

PART NUMBERS

PSC04 V1:	Ultra compact system, 2x modular rectifiers, 1x load 1x battery MCB's, SM36 supervisory module
PSC04 V2:	Ultra compact system, 2x modular rectifiers, 3x load 2x battery MCB's, SM36 supervisory module

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

CONFIGURATION OPTIONS

To be advised at time of order

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

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

MANUFACTURED IN NEW ZEALAND

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