

PSC06 SERIES

SYSTEMS 6.0kW 48V DC



PSC06 V1



PSC06 V2

Enatel DC power systems are the ideal solutions for powering telecommunications and data networks requiring 24V, 48V or 60V DC.

Enatel's Ultra Compact DC Power Systems range in power output from 1.0kW to 6.0kW and have a maximum output current of 125A. They are the ideal solution to meet the requirements of telecommunications applications such as access nodes and micro/pico base stations.

Utilizing Enatel's intelligent controllers and modular rectifiers our standalone 1U and 2U Ultra Compact DC Power Systems have been designed to be easily installed into any standard 19" rack and can be customized and configured to meet the individual requirements of each customer.

New Zealand made to guarantee design, manufacture and process integrity. Our robust proven conversion topology utilises only the highest specification components, ensuring unparalleled reliability benefits.

- **Ultra compact size means more room for revenue generating equipment.**
- **World leading power density.**
- **Fully featured telecom grade rectifiers.**
- **Network monitoring available.**
- **Modular 19" design for ease of installation.**
- **High reliability means less cost of maintenance.**
- **Full remote monitoring available means less site visits and less cost.**
- **Easily customized and configured to suit each customers individual needs.**



SPECIFICATIONS

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ELECTRICAL

PSC06 V1

PSC06 V2

AC Input:	Three phase or single phase (refer to rectifier spec for full details)	Three phase or 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:	Three phase, 10mm ² L1, L2, L3, N, E tunnel terminals Single phase by linking L1, L2, L3 terminals	Three phase, 10mm ² L1, L2, L3, N, E tunnel terminals Single phase by linking L1, L2, L3 terminals
DC Output:	Nominal Voltage: 24, 48 or 60V DC Max. Output Power: 6.0kW Polarity: Positive or negative earth	24, 48 or 60V DC 6.0kW Positive or negative earth
DC Distribution:	6x load circuit breakers (6-63A) 2x battery circuit breakers (max 63A)	16x load circuit breakers (2-30A) 2x battery circuit breakers (max 100A)
Breaker Fail Detection:	Electronic fail detection	Electronic fail detection
DC Terminals (Rear Connected):	Load: 16mm ² rear connect tunnel terminals Battery: 35mm ² rear connect tunnel terminals	6/10mm ² rear connect tunnel terminals 35mm ² rear connect tunnel terminals
LVD:	125A magnetically latching battery LVD	125A 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 combicon to accept 1.5mm ² wire USB port, USB mini B

*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), 89.0mm (2U), 390.0mm
Weight:	9.0kg (excluding rectifier modules)
Shipping Dimensions W, H, D:	540.0mm, 150.0mm, 435.0mm
Shipping Weight:	10.5kg (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

PSC06 V1:	Ultra compact system, 3x modular rectifiers, 6x load 2x battery MCB's, SM36 supervisory module
PSC06 V2:	Ultra compact system, 3x modular rectifiers, 16x 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