

PSM81 HV SERIES

INDUSTRIAL SYSTEMS 81.0kW 110V DC



ELECTRICAL

AC Input:	Three phase or single phase (refer to rectifier spec for full details)
Frequency Range:	45-66Hz
Power Factor:	>0.99 (full load)
Termination:	Three phase or single phase L, N, E 16mm ² terminal blocks, surge protection (40KA 8/20µsec)
DC Output:	Nominal Voltage: 110V DC Max. Output Power: 81.0kW Polarity: Floating earth
DC Distribution:	2 pole load MCB's as required (breaks +ve & -ve) 2 pole battery MCB's as required (breaks +ve & -ve)
Breaker Fail Detection:	Auxiliary breaker detect
DC Terminals:	Load: Direct to breaker Battery: Direct to breaker
LVD:	Optional magnetically latching battery LVD

MONITORING & CONTROL

Display:	Large 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 3x digital inputs, 2x temperature sensors (one fitted by default)
Alarms:	3x alarm relays, 2x of which can be mapped for customised alarm settings
Alarm Contacts:	0.3A 100V volts free changeover contacts (0.15A @ 160V)
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 SM34 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

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:	600.0mm, 2000.0mm, 600.0mm
Weight:	180.0kg (approx)
Shipping Dimensions W, H, D:	720.0mm, 2100.0mm, 830.0mm
Shipping Weight:	195.0kg (approx)

PART NUMBERS

PSM8127113:	HV 2.0m system, SM33 supervisory module
PSM8127114:	HV 2.0m system, SM34 supervisory module (TCP/IP)

*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

Rectifier:	RM30110, 3.0kW modular rectifier, 230V AC input, 110V DC output, 27.3A maximum output
Supervisory Modules:	SM33, standard monitor featuring full temperature compensation, automated and manual battery testing/equalisation SM34, enhanced monitor featuring full temperature compensation, automated and manual battery testing/equalisation with TCP/IP

OPTIONS

ASM-ABM24-110:	Battery condition monitor for 110V battery strings
ASM-AC3P:	AC mains monitor



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