

# HV COMPACT Power System

## Distinctly Reliable

**12kW**  
MAX

**110V**  
OUT

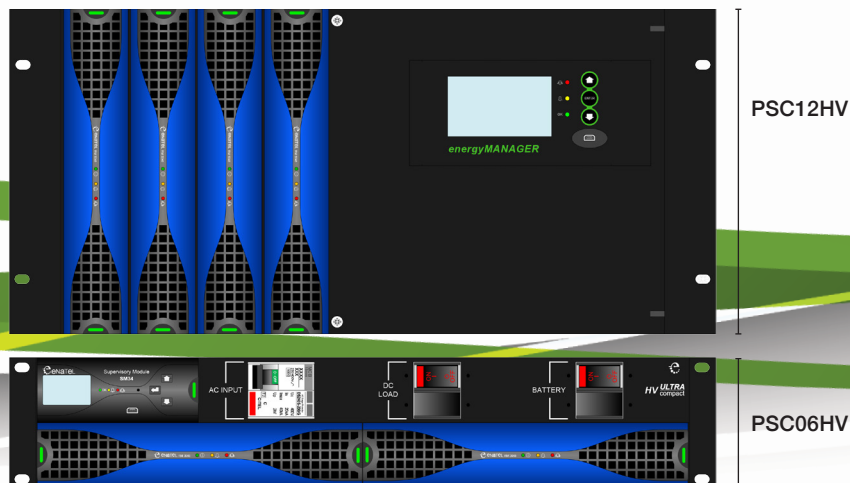
From Enatel's high voltage series of industrial power systems comes the HV COMPACT, with an output of up to 12.0kW and a maximum current of 109A. The ideal battery charging solution for utility protection and control equipment. All within 2U and 5U 19" rack mountable power shelves, which can be configured to individual customer requirements.

The HV COMPACT uses Enatel's state-of-the-art high-frequency switch-mode rectifier modules and intelligent network capable controllers in power shelves that include built-in load and battery distribution, AC input isolation and surge suppression.

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

### KEY FEATURES

- World-leading power density
- Fully featured industrial-grade rectifiers
- Network monitoring available
- Earth leakage detection
- Built-in AC surge suppression
- Hot-swappable rectifiers for no break operation under load
- Easily customized and configured to suit each customer's individual needs
- Modular 19" design for ease of installation



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## Specifications

### ELECTRICAL

|                         | PSC06  | PSC12   |
|-------------------------|--|---|
| AC Input:               | Single phase (refer to rectifier specifications) | Three phase (refer to rectifier specifications) |
| Termination:            | 3x 16mm <sup>2</sup> tunnel terminals            | Direct to MCB                                   |
| DC Output               | 110V DC  | 110V DC   |
| Nominal Voltage:        | 6kW  | 12.0kW  |
| Max Output Power:       | Floating earth                                   | Floating earth                                  |
| Polarity:               | 1x 70A 2 pole MCB, (breaks +ve & -ve)            | 3x 63A 2 pole MCB, (breaks +ve & -ve)           |
| DC Distribution         | 1x 70A 2 pole MCB, (breaks +ve & -ve)            | 1x 125A 2 pole MCB, (breaks +ve & -ve)          |
| Loads:                  | Auxiliary breaker                                | Auxiliary breaker                               |
| Battery:                | 35mm <sup>2</sup> tunnel terminals               | Direct to breaker                               |
| Breaker Fail Detection: | Not available                                    | Optional 125A magnetically latching battery LVD |
| DC Terminals            |  |   |
| Loads/Battery:          |  |   |
| LVD:                    |  |   |

### MECHANICAL

|                       |   |  |
|-----------------------|---|--|
| Dimensions (W, H, D): | 482.6mm (19" mount), 88.9mm, 350.0mm (2U) | 482.6mm (19" mount), 222.2mm, 320.0mm (5U) |
| Weight:               | 7.0kg (excluding rectifier modules)       | 9.0kg (excluding rectifier modules)        |

### MONITORING AND CONTROL (See SM33/SM34 datasheets)

#### ENVIRONMENTAL REQUIREMENTS

|                      |  |
|----------------------|--|
| Ambient Temperature: | -20°C to +70°C (maximum output power is derated above +50°C) |
|----------------------|--|

#### COMPLIANCES

|         |                     |
|---------|---------------------|
| Safety: | EN60950             |
| Other:  | CE & RoHS compliant |

#### PART NUMBERS

|          |  |
|----------|--|
| PSC12HV: | HV COMPACT system; 4x modular rectifiers, SM34 supervisory module (TCP/IP) |
| PSC06HV: | HV COMPACT system; 2x modular rectifiers, SM34 supervisory module (TCP/IP) |

#### CONFIGURATION OPTIONS

|                      |  |
|----------------------|--|
| 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/equalization<br>SM34: enhanced monitor featuring full temperature compensation, automated and manual battery testing/equalization with TCP/IP, Modbus over TCP/IP |
| ASM-ABM24-110:       | Battery condition monitor for 110V battery strings   |
| ASM-AC3P:            | AC mains monitor (5U only)   |



Contact Power On Australia for datasheets and characterization details. Due to product development, specifications are subject to change without prior notice. Pictures may be representative: actual products may differ.



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