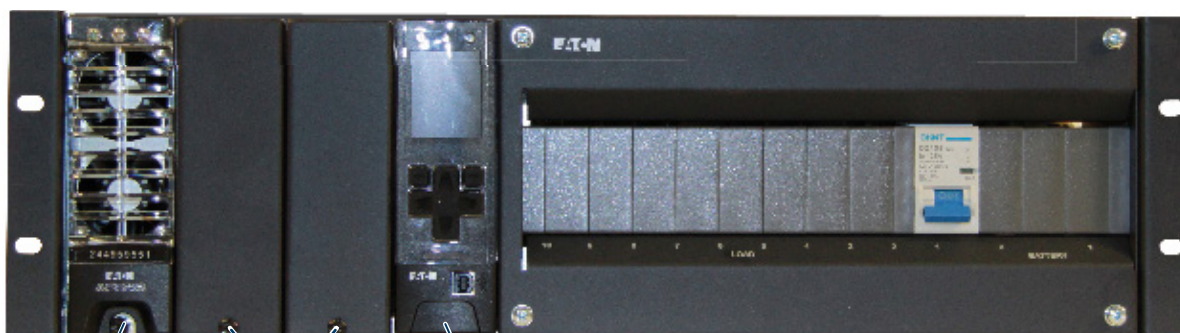


PSE

Power Supply Systems



**Rectifier
37 GR 48**

**For Further
Rectifiers**

**Control Unit
1 PCE 01**

The INDUSTRONIC power supply systems of the PSE series are ideal for different power applications, offering compact, efficient, flexible and reliable uninterruptable DC power supply at 48 VDC. Based on the latest technology they are modularly designed and thus highly flexible and adaptable to all requirements.

The 19" rack-mount system can be equipped with up to 3 power rectifiers of the 37 GR 48 series providing an output power of up to 112 A. They can be safely connected or disconnected during operation (hot swap). In the event of a control unit failure the rectifiers switch over to basic operation mode, however the control unit can then not perform any monitoring, measuring and control functions.

The integrated 1 PCE 01 control unit monitors and controls the power supply system. It offers highly advanced control and monitoring features including failures. Mains failure, DC output voltage monitoring with overvoltage/undervoltage indication, battery temperature and battery balance monitoring, rectifier and control unit failure are integrated monitoring functions.

Features and Functions

- Fast on-line expansion of rectifiers (hot-swap)
- High power density
- Wide range mains input
- Temperature-controlled float and boost charge, IU charging characteristic
- Monitoring of battery balance
- Continuous self-monitoring of device functions
- Failure messages via dry contacts and display

Components



Type	System Rack
Description	19" sub rack with 3 RU, equipped with a control unit of the 1 PCE 01 series, for up to 3 rectifiers
Type Number	008-201-074



Type	1 PCE 01
Description	Control unit for PSE power supply systems, color display with user-friendly menus
Type Number	008-302-013



Type	37 GR 48
Description	Rectifier for PSE power supply systems, automatic set-up from system control unit, hot-swap
Type Number	008-201-073

Accessories

Description	Battery balance set for PSE power supply
Type Number	309-799-128

Technical Data

Mechanical Data	• Mounting	19" system rack
	• Width x height x depth	19" x 3 RU x 350 mm (13.8")
	• Weight	Approx. 17.5 kg (approx. 38.6 lbs)
	• Number of rectifier slots	3
Electrical Data	• Wide AC input voltage range	90 VAC to 275 VAC
	• AC frequency range	45 Hz to 66 Hz
	• Maximum input current	8.5 AAC up to 25.5 AAC at 230 VAC, 11.5 AAC up to 34.5 AAC at 120VAC
	• Adjustable DC output voltage	43 VDC to 57 VDC
	• DC output power derating	90 VAC to 175 VAC
	• Maximum output current	37 A, up to 112 A at 230 VAC, 23 A, up to 69 A at 120 VAC
	• Maximum output power	1,800 W, up to 5,400 W at 230 VAC, 1,100 W, up to 3,300 W at 120 VAC
	• Efficiency	>= 92 %
	• Ripple	<= 10 mV rms
Terminals and Interfaces	• Mains input	3 x L, N, PE 4 mm ²
	• DC output	1 x L+ / L- 25 mm ²
	• Fault message outputs	3 relay outputs (dry contact, normally open) for common, mains and battery failure
	• Battery balance	1 x Mid Tap 4 mm ²
	• Temperature sensor	RJ45
Environmental Requirements	• Ambient temperature during operation	-10 °C to +50 °C (+14 °F to +122 °F)
	• Relative humidity (non-condensing)	Max. 95 %

Standards and Certifications		
• EMC		EN 61000-6-2, EN 61000-6-3
• Safety		EN 60950-1, IEC 60950-1, UL 60950-1, AS/NZS 60950-1
• North America		UL, FCC
• Offshore		DNV (No. 2.4)

Type Overview

Type	Input (nom.)	Output (nom.)	Rectifier	Type Number
230 VAC input / 48 VDC output				
PSE-230/48/37	230 VAC / 8.5 A	48 VDC / 37 A	1	309-799-500
PSE-230/48/74	230 VAC / 17 A	48 VDC / 74 A	2	309-799-501
PSE-230/48/112	230 VAC / 25.5 A	48 VDC / 112 A	3	309-799-502
120 VAC input / 48 VDC output				
PSE-120/48/23	120 VAC / 11.5 A	48 VDC / 23 A	1	309-799-503
PSE-120/48/46	120 VAC / 23 A	48 VDC / 46 A	2	309-799-504
PSE-120/48/69	120 VAC / 34.5 A	48 VDC / 69 A	3	309-799-505

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