



Preferred Module PSE

POWER SUPPLY SYSTEM



Rectifier
37 GR 48

For Further
Rectifiers

Control Unit
1 PCE 02

Preferred Modules is a special INDUSTRONIC product line designed for use in industrial environments.

- Fast expansion and replacement of rectifier modules, possible during operation (hot-swap plug-in technology)
- High power density
- Wide-range mains input
- Temperature-controlled float and boost charge, IU charging
- Deep discharge protection of batteries
- Continuous monitoring of device functions, mains voltage and battery
- Fault indication via display and fault indication interface
- Web interface for configuration and service functions

The PSE power supply system is a compact and reliable 48 V DC power supply. With a connected battery backup, it can be operated without any interruption.

The modular design enables flexible project-specific adaptation:

The 19" sub rack can be equipped with up to 3 rectifiers which provide a total output current of up to 111 A. Depending on the requirements, you can install up to 14 circuit breakers for DC outputs up to a maximum current of 32 A.

The control unit 1 PCE 02 controls and monitors the power supply and is used for configuration.



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PREFERRED
MODULES

Simplify Your Projects

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MODULES



PMOD PS E48V 01/1

19" sub rack with 3 RU including mounting material, equipped with control unit 1 PCE 02, one rectifier 37 GR 48, circuit breakers 1x 1 A and 3x 16 A, wiring kit including circuit breakers and terminals for connecting the mains supply

Type number

325-220-001



PMOD PS E48V 01/2

19" sub rack with 3 RU including mounting material, equipped with control unit 1 PCE 02, two rectifiers 37 GR 48 (for parallel operation or 1+1 configuration), circuit breakers 1x 1 A and 3x 16 A, wiring kit including circuit breakers and terminals for connecting the mains supply

Type number

325-220-002



PMOD PS E48V 01/3

19" sub rack with 3 RU including mounting material, equipped with control unit 1 PCE 02, three rectifiers 37 GR 48 (for parallel operation or 2+1 configuration), circuit breakers 1x 1 A and 3x 16 A, wiring kit including circuit breakers and terminals for connecting the mains supply

Type number

325-220-003

COMPONENTS



1 PCE 02

Control unit for PSE power supply, color display with user-friendly menus

Type number

008-302-019



37 GR 48

Rectifier for PSE power supply, automatic setup from the control unit, hot-swap plug-in technology

Type number

008-201-073

ACCESSORIES

Battery mid-point monitoring line PSE*

Type number	218-767-801
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*Optionally available if batteries are required.

Circuit breaker set for 5 DC circuits*

Type number	218-836-200
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*4 x 20 A, 1 x 16 A, fuse values can be changed in detailed planning

Circuit breakers	Type number
DC circuit breaker, 1 pole 1 A	015-211-013
DC circuit breaker, 1 pole 2 A	015-211-023
DC circuit breaker, 1 pole 3 A	015-211-033
DC circuit breaker, 1 pole 4 A	015-211-043
DC circuit breaker, 1 pole 10 A	015-211-103
DC circuit breaker, 1 pole 16 A	015-211-163
DC circuit breaker, 1 pole 20 A	015-211-203
DC circuit breaker, 1 pole 32 A	015-211-323

TECHNICAL DATA

MECHANICAL DATA

Mounting	19" rack mounting, 3 RU
Width x height x depth	483 mm x 132 mm x 350 mm (19.02" x 5.20" x 13.78")
Weight	Approx. 17.5 kg (approx. 38.58 lbs)
Number of rectifier slots	3

ELECTRICAL DATA

Wide-range input voltage AC	90 V AC to 275 V AC
Frequency range AC	45 Hz to 66 Hz
Output voltage DC nominal	54.5 V DC
Depending on the operating status	From 43.2 V DC to 57.6 V DC
Deep discharge protection for batteries	Activated below 43.2 V DC battery voltage, can be switched off
Maximum output power (all rectifiers equipped)	5,400 W at 230 V AC, 3,300 W at 120 V AC
Reduction of the maximum possible output power	From < 175 V AC input voltage
Efficiency	>= 92 %
Residual ripple	<= 10 mV _{rms}

TERMINALS AND INTERFACES

AC mains input	3 x 3(L, N, PE) Push-in terminals 4 mm ²
Max. input current per L, N input	8.5 AAC at 230 V AC, 11.5 AAC at 120 V AC 3-phase connection possible
DC outputs with preceding, monitored circuit breakers (suitable for field installation)	14 x L+, 15 x L- Push-in terminals 4 mm ² Up to 32 A, see accessories
Connection for 48 V DC battery	2 x screw terminals 50 mm ²
Max. current (integrated fuse)	125 A DC
Input of battery mid-point monitoring line	Push-in terminal 1.5 mm ²
Input of battery temperature sensor	RJ45 port
Fault indication interface	4 signal outputs for common fault, mains failure, battery fault and tripped circuit breaker, signal is present in fault-free state (see output voltage DC), total current of all outputs max. 100 mA, 4 x push-in terminals 1.5 mm ²
Network interface	RJ45 port, Ethernet 100BaseT

ENVIRONMENTAL REQUIREMENTS AND STANDARDS

Ambient temperature during operation	-10 °C to +50 °C (+14 °F to +122 °F)
Relative humidity (non-condensing)	Max. 95 %
EMC	EN 61000-6-2, EN 61000-6-4
Safety	EN 62368-1, IEC 62368-1, UL 62368-1
North America	UL, FCC
Offshore	DNV (no. 2.4)



TYPE OVERVIEW

Type	Input*	Rectifiers in operation	Redundant rectifiers	Input*	Output*	Type number
PMOD PS E48V 01/1	120 V AC	1	-	11.5 A	23 A	235-220-001
	230 V AC	1	-	8.5 A	37 A	
PMOD PS E48V 01/2	120 V AC	2	-	23 A	46 A	325-220-002
		1	1	11.5 A	23 A	
	230 V AC	2	-	17 A	74 A	
		1	1	8.5 A	37 A	
		2	1	17 A	74 A	
PMOD PS E48V 01/3	120 V AC	3	-	34.5 A	69 A	325-220-003
		2	1	23 A	46 A	
	230 V AC	3	-	25.5 A	111 A	
		2	1	17 A	74 A	

*at 48 V DC output

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