

PROCESS AUTOMATION



High Integrity Power Supply

N+1 Redundancy



- Hot swappable for live replacement
- Active load sharing operation
- High density
- Built-in alarm outputs
- Automatic power factor correction

Fault Tolerant Power Supplies

For Mission Critical Applications

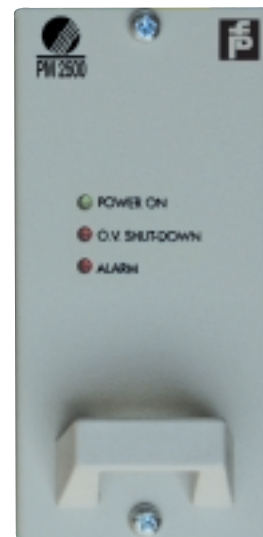
Pepperl+Fuchs Elcon, the name you can trust in the high-risk arena of hazardous area protection, is proud to introduce a high-integrity 24 V power supply system. These supplies are particularly suitable for mission critical applications throughout the process control industry. From emergency shutdown networks to fire and gas protection systems, as well as many general-purpose process control applications, our supplies meet the most demanding requirements of today's control system engineer.



The system is designed with external field connectors for easy cabinet layout as well as LED and alarm output features for quick diagnostic evaluation.

The 24 V, 15 A power module plugs directly into a 3- or 6-position chassis which allows a maximum capacity of 45 A or 90 A respectively (30 A or 75 A in N+1 configuration). These high efficiency modules (88% overall) require no internal or external cooling fans; plus, the modules are adjustable from 22.5 V to 28 V for precise voltage selection.

With all these features, we are confident Pepperl+Fuchs Elcon power supplies will meet expectations for your next critical application.



The modular design of the power supply allows the system to be configured in a full, N+1 redundant mode. This guarantees uninterrupted power to your system even during a module failure and subsequent replacement. The automatic load sharing feature eliminates load imbalances common in ordinary linear power supplies.

TECHNICAL SPECIFICATIONS

INPUT

Voltage:	115 VAC nominal (2500/PM-115); 230 VAC nominal (2500/PM-230); 90-180 VDC (2500/PM-115); 180-375 VDC (2500/PM-230)
Inrush Current Limiting:	<15 A peak for 5 msec max (115 VAC); <8 A peak for 5 msec max (230 VAC)
Steady State Current:	5.8 A average (115 VAC); 2.9 A average (230 VAC)
Internal Fuses:	6 A (5x20 mm glass cartridge) for 2500/PM-115; 3.15 A (5x20 mm glass cartridge) for 2500/PM-230
Input Terminals:	3 terminal, double-sided 6 mm ² (10 AWG)

GENERAL

Isolation:	Output to Ground: 2.12 kVDC; Line to Ground: 2.12 kVDC Line to Output: 4.25 kVDC
Operating Temperature:	-25°C to +55°C (+70°C for 2 hrs maximum)
Storage Temperature:	-40°C to +85°C
Dimensions:	7.6" x 10.7" x 11.8" (HxWxD) for 3-module chassis with power modules 7.6" x 19.1" x 11.8" (HxWxD) for 6-module chassis with power modules

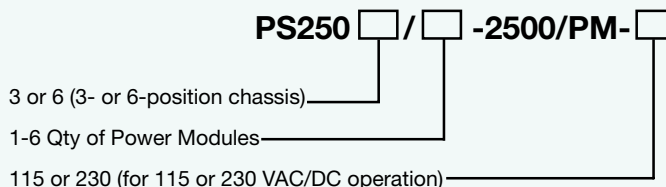
CERTIFICATIONS

Electromagnetic Compatibility:	EN-500812-2 for conducted and radiated emissions; EN-50082-2 for immunity; Carries CE Mark
Safety:	UL recognized component to U.S. and Canadian safety requirements

OUTPUT

Voltage:	24 VDC±1% Adjustable 22.5-28 V on chassis
Ripple:	35 mVrms (<100 mVp-p)
Temperature Coefficient of Output Voltage:	±0.01% per °C max
Line Regulation:	<200 mV (Vmin to Vmax Input)
Load Regulation (per power module):	<200 mV (0-15 A output load)
Turn-on/Turn-off Voltage Transient:	100 msec to final value (no over/under shoot)
Minimum Hold-Up Time:	≥30 msec at nominal input voltage and output load
Current:	0-15 A nominal per (2500/PM) Power Module: (45 A for PS2503 chassis / 90 A for PS2506 chassis)
Short Circuit Limit:	20 A minimum
Output Terminals:	2 terminal, double sided 10 mm ² (6 AWG); 65 A each

ORDERING INFORMATION



The GreenTeam is P+F's network of experts dedicated to providing customized process solutions.



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"Terms & Conditions of Sale" information is printed on every order acknowledgement; copies are available upon request.

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