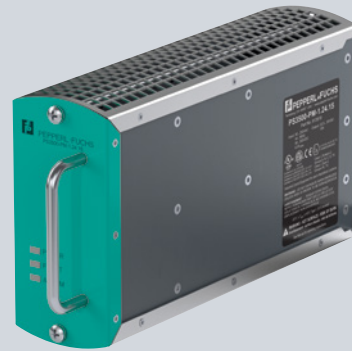


Powering Availability



PS3500 Power Supplies



Your automation, our passion.

 **PEPPERL+FUCHS**

Unrelenting Current

Like the uncompromising power of Mother Nature, PS3500 power supplies provide a steady stream of reliable, unrelenting current. Continuous process facilities require more than off-the-shelf, industrial-grade power supplies. These demanding conditions necessitate N+1 redundancy, a robust and affordable redundancy method that guarantees system functionality will continue even during a supply failure.

A single power supply failure can have a catastrophic effect that equates to a tremendous amount of lost revenue. The PS3500 redundant power supplies should be considered whenever an unexpected loss of power would be disastrous to operations.






N+1 and N+N provide economic reliability and redundancy to your power system. With an N+1 redundant power supply configuration, multiple power supply modules (N) have a backup power supply module (+1). All modules within the configuration share the load. If one module in the system fails to work, the working modules are able to continue sharing the load without degrading the integrity of the system. N+N configurations provide redundancy using two power supply modules sharing the load equally.

”

system integrity

“State of a system where it is performing its intended functions without being degraded or impaired by changes or disruptions in its internal or external environments.”

System specifications

Input	Efficiency	Up to 91%
	Voltage	90 ... 250 VAC; 90 ... 300 VDC
Output	Current	15 A
	Voltage	24 VDC ± 1% nominal (22.5 ... 30 VDC adjustable)
	Temperature coefficient	± 0.01% /°C max
Ambient Conditions	Operating temperature	-25 °C ... 45 °C (70 °C derated)
	Relative humidity	< 95 % noncondensing
Mechanical	Protection	IP20 in accordance with EN 60529
	Weight	Approx. 1.8 kg
	Dimensions (module)	134 x 62 x 268 mm (5.3 x 2.5 x 10.6 in)
	Dimensions (3-slot motherboard)	193 x 78 x 272 mm (7.6 x 3.1 x 10.7 in)
	Dimensions (6-slot motherboard)	193 x 78 x 486 mm (7.6 x 3.1 x 19.1 in)
Certifications	Class I, Division 2, Groups A, B, C, D	
	II 3G Ex nA nC IIC T4 Gc (Power Module) II 3G Ex ic nA nC IIC T4 Gc (Diagnostic Module)	  
	Ex nA nC IIC T4 Gc (Power Module) Ex ic nA nC IIC T4 Gc (Diagnostic Module)	

Power diagnostics

How much unexpected downtime is acceptable? The PS3500 diagnostic module continuously monitors the health and efficiency of the PS3500 power supplies. The diagnostic module provides alerts for deviations so that proactive maintenance can be done, eliminating downtime and lost revenue.

- Real-time input and output power monitoring
- Configurable warning and alarm levels
- Diagnostics for preventative maintenance
- Asset management integration (EDDL, FDT/DTM, RS485/HART)

Model	Description
PS3500-PM-1.24.15	15 A power supply module, 24 VDC output
PS3500-TB-3	3-position backplane
PS3500-TB-6	6-position backplane
PS3500-DM	Diagnostic module

PS3500-DM

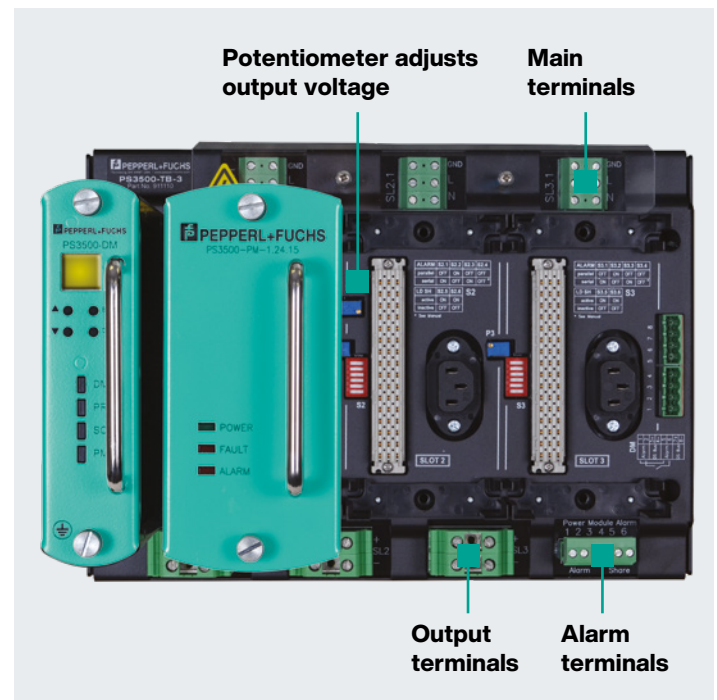


Plug in the PS3500 diagnostic module to add maximum protection on mission-critical loops.

Highlights

- Adjustable output voltage between 22.5 V to 30 V
- Built-in alarm outputs
- High efficiency (up to 91 %)
- Fanless design
- Hot-swappable module replacement
- Class I, Division 2 and ATEX, IECEx, CCC Zone 2 certified

N+1 and N+N



Each 24 V, 15 A power supply module plugs directly into a 3- or 6-position backplane, allowing a maximum capacity of 45 A or 90 A of uninterrupted power.

Your automation, our passion.

Explosion Protection

- Intrinsic Safety Barriers
- Signal Conditioners
- FieldConnex® Fieldbus Infrastructure
- Remote I/O Systems
- Electrical Explosion Protection Equipment
- Purge and Pressurization Systems
- HMI Systems
- Mobile Computing and Communications
- HART Interface Solutions
- Surge Protection
- Wireless Solutions
- Level Measurement

Industrial Sensors

- Proximity Sensors
- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- Vibration Sensors
- Industrial Ethernet
- AS-Interface
- IO-Link
- Identification Systems
- Displays and Signal Processing
- Connectivity

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Printed in the USA • Part. No. 912637 05/2103



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