

UNRELENTING CURRENT

**POWERING AVAILABILITY WITH
PS3500 POWER SUPPLIES**



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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.

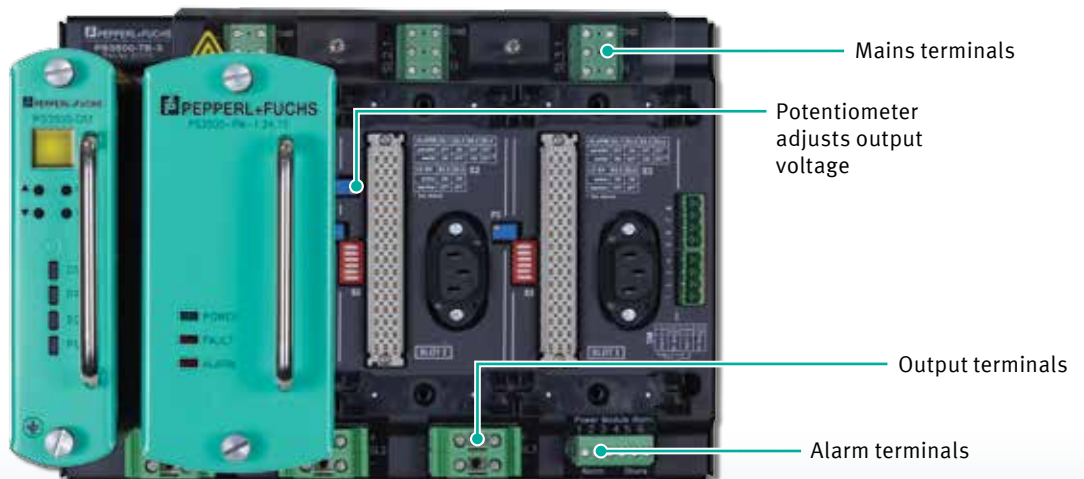
BENEFITS

- 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, ATEX Zone 2 and Division 2 certified

N+1 AND N+N

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.

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.



sys·tem·teg·ri·ty

“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.”

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
- ATEX, IECEX, and cULus approvals for Zone 2 and Division 2
- Asset management integration (EDDL, FDT/DTM, RS485/HART)

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



PS3500-DM

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)
AMBIENT CONDITIONS	Temp. coefficient	±0.01% /°C max
	Operating temp.	-25 °C...45 °C (70 °C derated)
MECHANICAL	Relative humidity	< 95% noncondensing
	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)
CERTIFICATIONS	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 IIC T4	 

ORDERING INFORMATION

PS3500- ■ ■ - ■ ■

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|----------|-------------------|----------------|-------------------------|
| P | Power module | 1.24.15 | Power supply module |
| M | Backplane | 3 | Backplane for 3 modules |
| T | Backplane | 6 | Backplane for 6 modules |
| D | Diagnostic module | | |

Note: all power modules load share

PROCESS AUTOMATION – PROTECTING YOUR PROCESS



For over a half century, Pepperl+Fuchs has provided new concepts for the world of process automation. Our company sets standards in quality and innovative technology. We develop, produce and distribute electronic interface modules, Human-Machine Interfaces and hazardous location protection equipment on a global scale, meeting the most demanding needs of industry. Resulting from our world-wide presence and our high flexibility in production and customer service, we are able to offer complete individual solutions – wherever and whenever you need us. We are the recognized experts in our technologies – Pepperl+Fuchs has earned a strong reputation by supplying the world's largest process industry companies with the broadest line of proven components for a diverse range of applications.

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