

Features

- 3-position backplane for PS2500/PS3500 series power modules
- Multiple input/output wiring configurations
- Removable terminals for easy wiring
- Serial or parallel fault bus
- ATEX and cULus approvals for Div 2/Zone 2

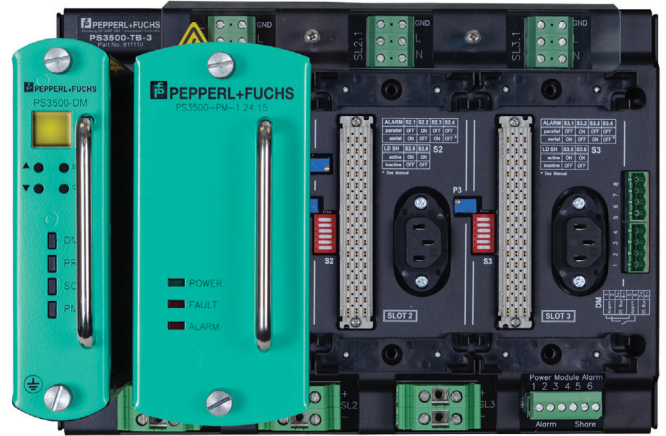
Function

The PS3500-TB-3 is a 3-position backplane used by the PS2500/PS3500 series power supply modules. Power configuration and alarms are controlled by DIP switches on the backplane. The backplane connects to universal AC (90-250 V) or DC (90-300 V) inputs and supports redundancy.

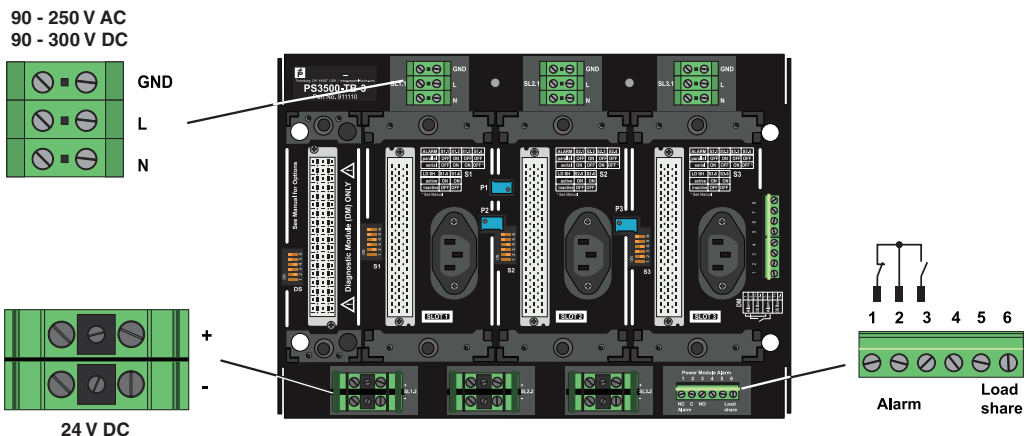
The PS3500-TB-3 allows a maximum of 45 A of output power, 30 A in N+1 configuration or 15 A in triple redundant mode. Automatic load sharing of all of the power modules is built into the backplane. Input and output lines can be wired independently or in parallel, providing easy configuration of N+1 redundancy.

The fault bus can be configured in serial or parallel combinations.

Assembly



Connection



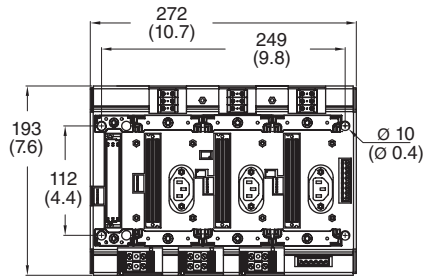
Zone 2
Div. 2

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Interface	
Type	diagnostic bus: RS 485
Input	
Rated values	terminal ratings: current 30 A, voltage 300 V
Voltage	90 ... 250 V AC; ± 10 %, 90 ... 300 V DC
Output	
Rated values	terminal ratings: current 65 A, voltage 300 V
Fault signal	removable terminals : power module alarm
Directive conformity	
Electromagnetic compatibility	
Directive 2004/108/EC	EN 61326-1:2006 EN 61000 sections 3-2, 3-3, 4-2, 4-4, 4-5, 4-6, and 4-11
Conformity	
Electromagnetic compatibility	NE 21:2006
Protection degree	EN 60529
Shock resistance	EN 60068-2-27
Vibration resistance	EN 60068-2-6
Ambient conditions	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Relative humidity	< 95 % , noncondensing
Shock resistance	15 g , 11 ms
Vibration resistance	1 g , 58 ... 150 Hz
Mechanical specifications	
Core cross-section	input terminals: 4 mm ² (10 AWG) output terminals: 10 mm ² (6 AWG)
Housing material	Powder Coated, 1010 Cold Rolled Steel
Protection degree	IP20
Mass	approx. 1.4 kg (3.20 lbs)
Dimensions	193 x 78 x 272 mm (7.6 x 3.1 x 10.7 in)
Data for application in connection with Ex-areas	
EC-Type Examination Certificate	ITS 09 ATEX 46140 X
Group, category, type of protection	⊕ I/3 G Ex nC IIC T4
Directive conformity	
Directive 94/9/EC	EN 60079-0, EN 60079-15
International approvals	
UL approval	cULus Listed E230669 E350173
Approved for	Class I/Div 2, ABCD
ETL Intertek	listed ANSI/UL 508 - 2005 ANSI/ISA 12.12.01 - 2.07 CSA C22.2 No. 213 C22.2 No.214CSA C22.2 No. 213 CAN/CSA C22.2 No.14-05 With update No.3, 2008
Approved for	Class I, Zone 2, Group IIC T4 Class I, Division 2, Groups A, B, C, D, T4
General information	
Supplementary information	Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com .

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Dimensions mm (in)



System dimensions mm (in)

PS 3500-PM-1.24.15

