



PS3500 Power Supply Backplane - 6-position PS3500-TB-6

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

6 position backplane for use with PS3500 power supplies



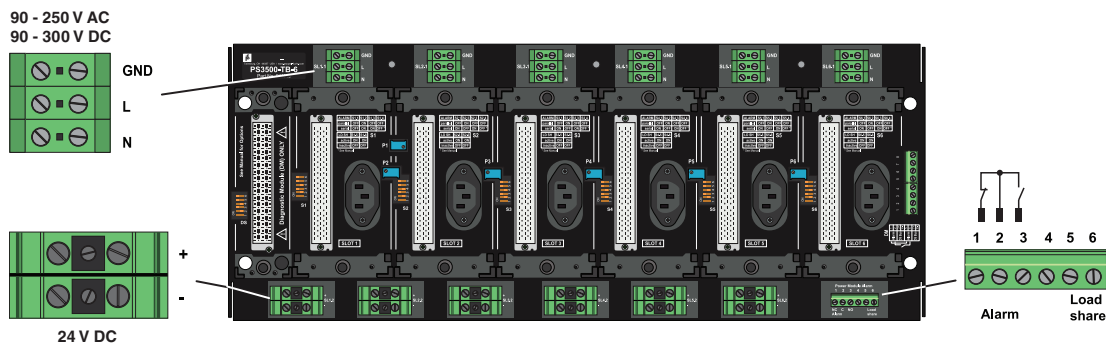
Function

The PS3500-TB-6 is a 6-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-6 allows a maximum of 90 A of output power, 75 A in N+1 configuration or 45 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.

Connection



Zone 2
Div. 2

Technical Data

Interface	
Type	diagnostic bus: RS 485
Input	
Rated values	terminal ratings: current 6.5 A per slot
Voltage range	90 ... 250 V AC, 44 ... 66 Hz; 90 ... 300 V DC
Output	
Rated values	terminal ratings: current 65 A, voltage 300 V
Fault signal	removable terminals : power module alarm
Indicators/settings	
Control elements	DIP switches for alarm and load sharing configuration potentiometers for output voltage adjustment
Directive conformity	

Technical Data

Electromagnetic compatibility		
Directive 2014/30/EU		Refer to DoC for all directives and standards met.
Conformity		
Electromagnetic compatibility		NE 21:2006
Degree of protection		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
Degree of protection		IP20
Mass		approx. 2.9 kg (6.375 lbs)
Dimensions		193 x 78 x 486 mm (7.6 x 3.1 x 19.1 inch)
Height		193 mm
Width		486 mm
Depth		78 mm
Data for application in connection with hazardous areas		
Certificate		DEMKO 12 ATEX 1103387X
Marking		Ⓔ II 3 G Ex ec IIC T4 Gc
International approvals		
UL approval		cULus Listed E230669 E350173
Approved for		Class I/Div 2, ABCD Class I, Zone 2, Grp IIC T4
IECEX approval		IECEX UL 13.0082X Ex ec IIC T4 Gc
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 .

Assembly

Release date: 2024-01-15 Date of issue: 2024-01-15 Filename: 911113_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group
www.pepperl-fuchs.com

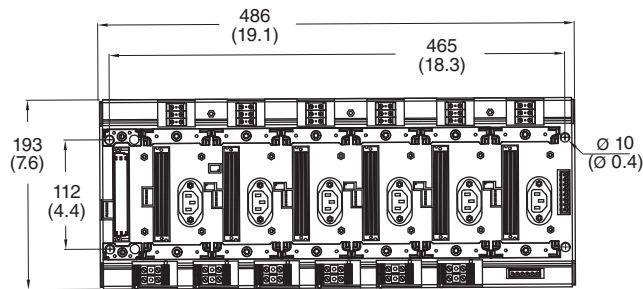
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Dimensions



System dimensions mm (in)

PS 3500-PM-1.24.15

