



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

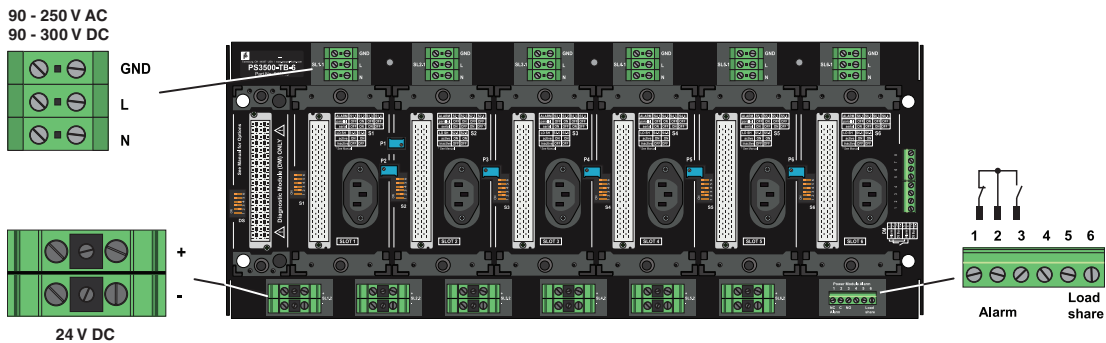
6 position backplane for use with PS3500 power supplies



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 | |

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

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PEPPERL+FUCHS

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) |
| 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



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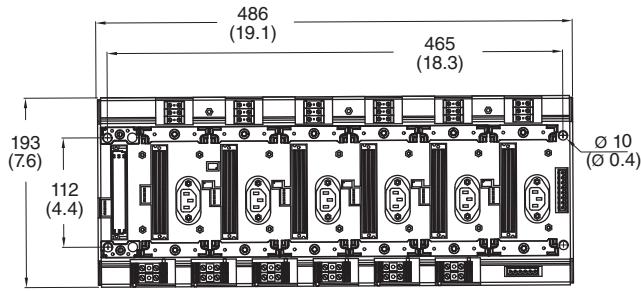
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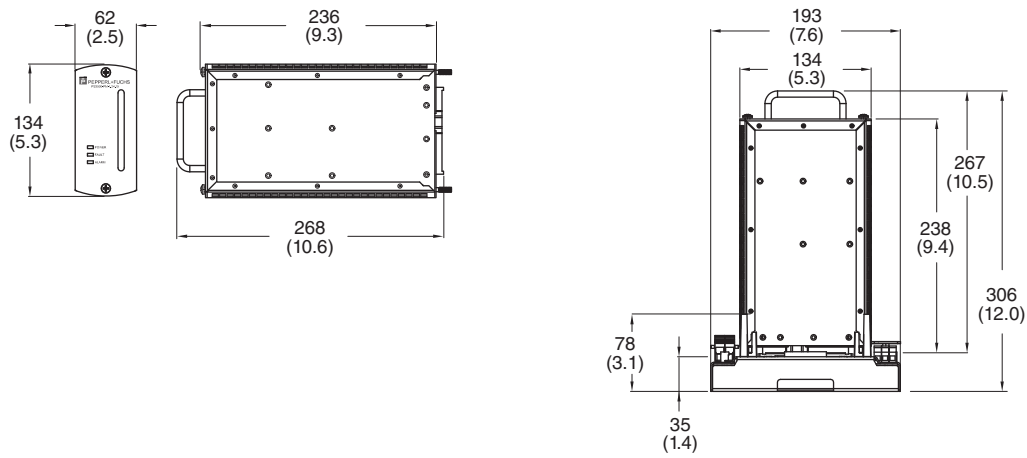
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Dimensions



System dimensions mm (in)

PS 3500-PM-1.24.15



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