

PT510 DIN-rail mountable redundancy module for marine and offshore applications

PT510

Features



- GL Approved for bridge use
- Cooling by free air convection
- DIN-Rail mounting on back or side
- Conformal coating
- RoHS compliant
- Ultra low voltage drop
- Suitable for 12 / 24 / 48 V redundant operation
- LED's indicating Input OK

Input

Input Range	10 - 48 V _{dc}
Number of inputs	2
Input current	20 A (max) per input
LED indicators	DC OK (1 for each input)
Reverse polarity protection	Yes, < 60 V

EMC Specifications

ESD	EN61000-4-2	Air ± 8 kV
		Contact ± 4 kV
Radiated immunity	EN61000-4-3	10 V/m 8 MHz - 2 GHz
EFT/Burst	EN61000-4-4	2 kV
Surge	EN61000-4-5	0.5 kV
		Input+ - Input-
Conducted immunity	EN61000-4-6	3V _{RMS} , 150 kHz- 80 MHz
Conducted LF	IEC60533	3V _{RMS} , 50Hz-12kHz
HV immunity	IEC60947-2	2kV, 60s

Output

Max. reverse voltage	50 V
Output current	20 A (max)
Voltage drop	< 200 mV @ 20 A

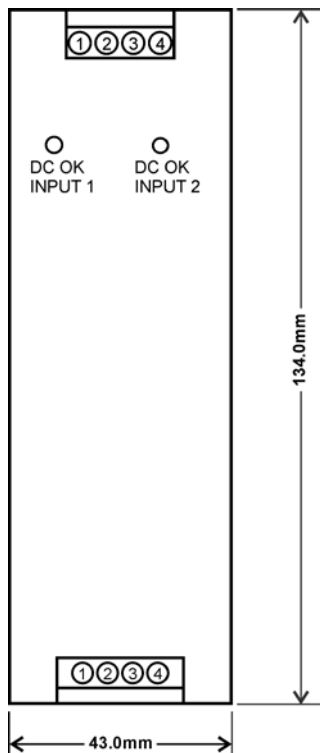
Environmental

Thermal performance	
Operating	-25 - +70°C without derating
Storage	-40 - +85°C
Humidity	5 - 95%; non-condensing @ +55°C
	Conformal coating
Vibration	Germanischer Lloyd table 3.16
	High vibration strain
	±1.6 mm displacement; 2 - 25 Hz
	4g; 25 - 100 Hz (1 octave/min)
Altitude	10,000 feet; operating
	30,000 feet; non-operating

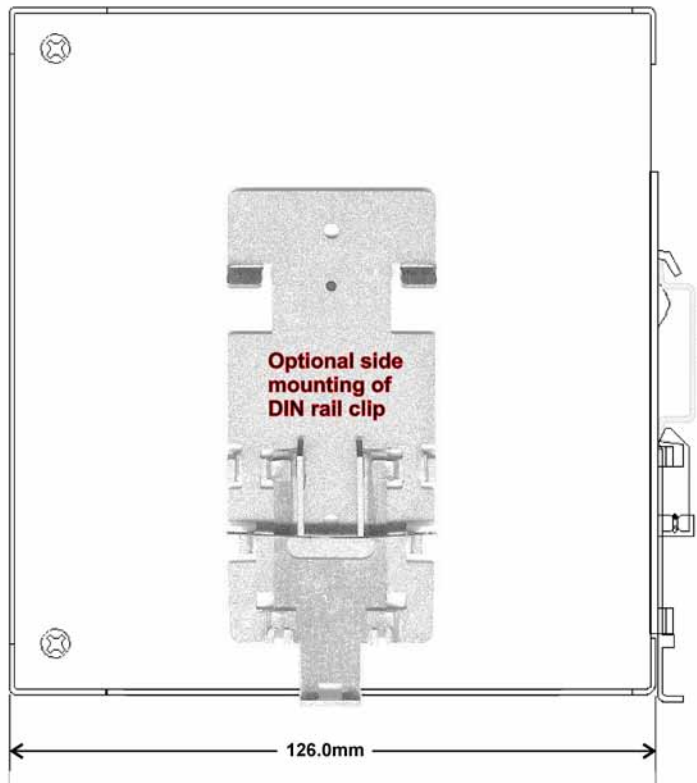
General

Isolation voltage	Input/Chassis	1 kV _{ac}
	Output/Chassis	1 kV _{ac}
Isolation resistance	Terminal - Chassis	> 100 M @ 500 V _{ac}
Weight		< 0.4 kg
Warranty		2 Years

Front view



Side view



Input Connector

Pin	Function
1	Input 1 +
2	Input 1 -
3	Input 2 -
4	Input 2 +

Output Connector

Pin	Function
1	Output DC +
2	Output DC +
3	Output DC -
4	Output DC -

Dimensions

Height 134 mm

Width 43 mm

Depth 126 mm Excluding DIN-Rail mounting device
Add 10 mm for standard mounting device and EN50022 DIN-Rail

Approvals



Germanischer Lloyd

Environmental category: D, EMC1

Guidelines for the Performance of Type

Approvals Chapter 2, Edition 2003



Low Voltage Directive 73/23/EEC and 93/68/EEC

EMC Directive 89/336/EEC and 92/31/EEC and 93/68/EEC

Wire Gauge

AWG 24 - 12

Solid 0.2 - 4 mm²Flexible 0.2 - 2.5 mm²

Other Power Technics products for Marine and Offshore Applications

PT506	75 W	DIN-Rail AC/DC Power Supply
PT502	125 W	DIN-Rail AC/DC Power Supply
PT503	250 W	DIN-Rail AC/DC Power Supply
PT504	500 W	DIN-Rail AC/DC Power Supply
PT505	250 W	DIN-Rail DC/DC Power Supply

Specifications subject to change without notice

Rev. 2