

Specifications (measured @ Ta= 25°C, nom.Vin, full load and after warm-up unless otherwise stated)

PROTECTIONS

Parameter	Type		Value
Over Temperature Protection (OTP)			refer to note 3
Over Current Protection (OCP)			>120% typ. auto recovery
Power OK LED	"DC OK" Light green		Vout >21.5V
Class of Equipment			Class I
Isolation Voltage	tested for 1 minute	I/P to O/P	4242VDC
		O/P to PE	2343VDC
Isolation Resistance			10MΩ min.
Insulation Grade			reinforced

Notes:

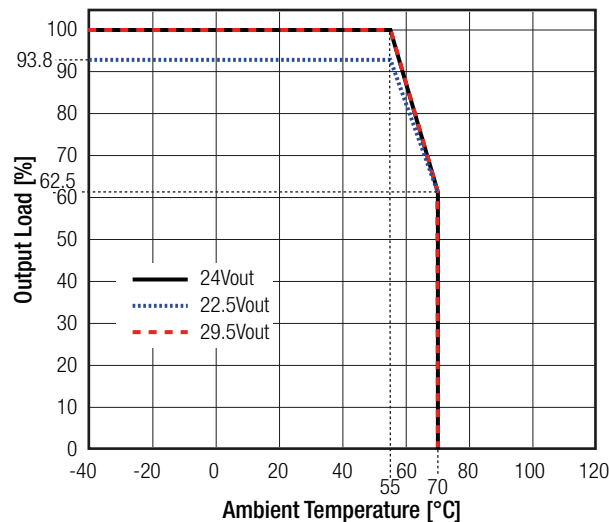
- Note2: Refer to local wiring regulations if input over-current protection is also required
 Note3: Under thermal overload conditions, the device does not switch off; instead, the output current is limited as much as necessary to return internal operating temperatures to safe limits. After the device cools down, full output capacity is automatically restored

ENVIRONMENTAL

Parameter	Condition		Value
Operating Temperature Range	@ natural convection 0.1m/s	full load	-25°C to +55°C
		refer to derating graph	-25°C to +70°C
Maximum Case Temperature			+105°C
Temperature Coefficient			0.05%/K
Operating Altitude			2000m
Operating Humidity	non-condensing at 25°C		5%-95% RH max.
IP Rating			IP20
Pollution Degree	according to EN50178		PD2
Shock			15G in all directions
Vibration			<15Hz, amplitude ±2.5mm 15Hz to 150Hz, 2.3G, 90min.
MTBF	according to IEC61709	+25°C	500 x 10 ³ hours
		+55°C	60 x 10 ³ hours

Derating Graph

(@ Chamber and natural convection 0.1m/s)



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SAFETY AND CERTIFICATIONS

Certificate Type	Report / File Number	Standard
Information Technology Equipment, General Requirements for Safety	E196683	UL60950-1, 1st Edition: 2007 CSA C22.2 No. 60950-1, 1st Edition: 2006
Industrial Control Equipment	E470721	UL508, 17th-Edition CSA C22.2 No. 107.1-01, 3rd-Edition
Information Technology Equipment - General Requirments for Safety (LVD)		EN60950-1:2006+A2:2013
EAC	RU-AT.37.02367	TP TC 004/2011
RoHs2		RoHs 2011/65/EU

EMC Compliance

Report / Condition	Standard / Criterion
Industrial, scientific and medical equipment – Radio frequency disturbance characteristics – Limits and methods of measurement	EN55011:1989 + A2:2002, Class B
ESD Electrostatic discharge immunity test Air ±2, 4, 8kV Contact ±2, 4, 6, 8kV	EN61000-4-2:1995 + A1:1998, Criteria A
Radiated, radio-frequency, electromagnetic field immunity test 10V/m (80 - 3000MHz)	EN61000-4-3:2002 + A1:2002, Criteria A
Fast Transient and Burst Immunity AC Power Port: ±4kV PE ±4kV DC Power Port ±2kV	EN61000-4-4:1995 + A2:2001, Criteria A
Surge Immunity AC Power Port: L-N ±0.5, 1, 2kV L-PE ±4kV DC Power Port ±0.5, 1, 2kV	EN61000-4-5:1995 + A1:2001, Criteria A
Immunity to conducted disturbances, induced by radio-frequency fields AC Power Port 10V DC Power Port 10V	EN61000-4-6:1996 + A1:2001, Criteria A
Voltage Dips and Interruptions Voltage Dips >95%	EN61000-4-11:1994, Criteria B
Voltage Dips and Interruptions Voltage Dips 60%	EN61000-4-11:1994, Criteria B
Voltage Dips and Interruptions Voltage Dips 30%	EN61000-4-11:1994, Criteria B
Voltage Dips and Interruptions Voltage Interruptions > 95%	EN61000-4-11:1994, Criteria B
Limits of Harmonic Current Emissions	EN61000-3-2:2000, Class A
Limits of Voltage Fluctuations & Flicker	EN61000-3-3:1995 + A1:2001
Railway applications – Electromagnetic compatibility Part 4: Emission and immunity of the signalling and telecommunications apparatus	EN50121-4:2006

EMC Compliance (Generic Standards)

Report / Condition	Standard / Criterion
Generic standards - Immunity standard for industrial environments	EN61000-6-2:2005
Generic standards - Emission standard for residential, commercial and light-industrial environments	EN61000-6-3:2007 + A1:2011

DIMENSION and PHYSICAL CHARACTERISTICS

Parameter	Type	Value
Material	cover case	steel sheet, zinc-plated aluminium
Dimension (LxWxH)		190.0 x 139.0 x 130.0 mm
Weight		2900g typ.

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