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

PROTECTIONS

Parameter	Type		Value
Input Fuse	internal		F4A, fast blow
Recommended backup fuse for mains protection			3x 6A (characersitics B) 3x 10A (characersitics B) 3x 16A (characersitics B)
Short Circuit Protection (SCP)	below 100mΩ		>125% typ. power limiting
Over Voltage Protection (OVP)			>145% typ. auto recovery
Over Voltage Category (OVC)			OVC II
Over Temperature Protection (OTP)			refer to note 2
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	2300VDC
Isolation Resistance			10MΩ min.
Insulation Grade			reinforced

Notes:

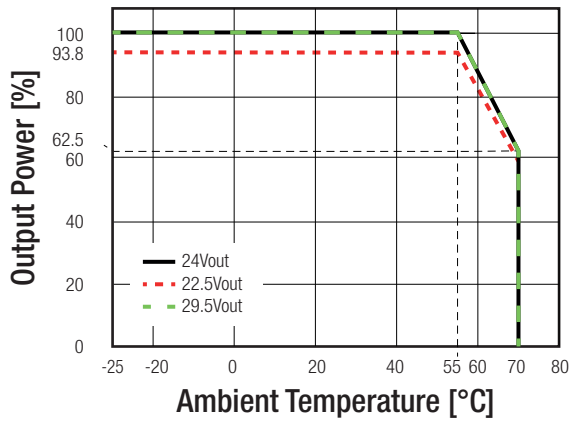
Note2: Under thermal overload conditions, the device does not switch off; instead, the output current is limited as much as necessary to return internal operating temperatures to safe limits. After the device cools down, full output capacity is automatically restored.

ENVIRONMENTAL

Parameter	Condition		Value
Operating Temperature Range	without derating @ natural convection 0.1m/s (see graph)		-25°C to +55°C
Maximum Case Temperature			+105°C
Temperature Coefficient			±0.05%/°C
Operating Altitude			2000m
Operating Humidity	non-condensing at 25°C		5%-95% RH max.
IP Rating			IP20
Pollution Degree	according to EN50178		PD2
Shock			30G in all directions
Vibration			<15Hz, amplitute ±2.5mm 15Hz to 150Hz, 2.3G, 90min.
MTBF	according to IEC61709	+25°C +55°C	500 x 10^3 hours 60 x 10^3 hours

Derating Graph

(@ Chamber and natural convection 0.1m/s)



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

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
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 + A1:2001, 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, B (L-PE)
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 and Interruptions Voltage Dips and Interruptions Voltage Dips and Interruptions	Voltage Dips >95% Voltage Dips 60% Voltage Dips 30% Voltage Interruptions > 95%	EN61000-4-11:1994 + A1:2001, Criteria A EN61000-4-11:1994 + A1:2001, Criteria B EN61000-4-11:1994 + A1:2001, Criteria A EN61000-4-11:1994 + A1:2001, 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
Unit Dimension (LxWxH)		152.5 x 115.0 x 130.0mm
Unit Weight		2000g typ.

continued on next page