

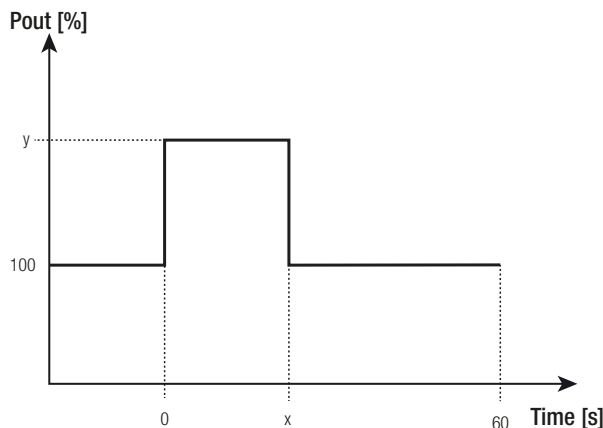
**Specifications** (measured @ Ta = 25°C, rated Vin, rated load and after warm up)

PROTECTION			
Parameter	Condition		Value
Input Fuse <sup>(2)</sup>			T10A, slow blow type
Short Circuit Protection (SCP)			Hiccup Mode
Over Voltage Protection (OVP)	24Vout 48Vout		29-33VDC, constant voltage auto recovery 58-63VDC, constant voltage auto recovery
Over Voltage Category (OVC)			OVC II
Over Load Protection (OLP)			Limit the current by constant power circuit
Over Temperature Protection (OTP)			115±5°C, detect on Heat-sink of power transistor; shut down O/P, auto recovery after temperature goes down
Isolation Voltage	tested for 1 minute	I/P to O/P I/P to PE O/P to PE	3.0kVAC / 15mA max. 2.5kVAC / 15mA max. 0.5kVAC / 20mA max.
Isolation Resistance			10MΩ min.
Insulation Grade			reinforced
Leakage Current	I/P to O/P I/P to PE		0.25mA max. 3.5mA max.
Power OK LED	ON (green) OFF (red) Relay Contact Rating		Vout up to 90% of rated Vout Vout down to 80% of rated Vout Max. 30V/1A or 60V/0.3 or 30VAC/0.3A Resistive Load

**Notes:**

Note2: Refer to local wiring regulations if input over-current protection is also required

**Overload Capability**



Time (x) [s]	Pout (y) [%]
3	150
8	135
45	125

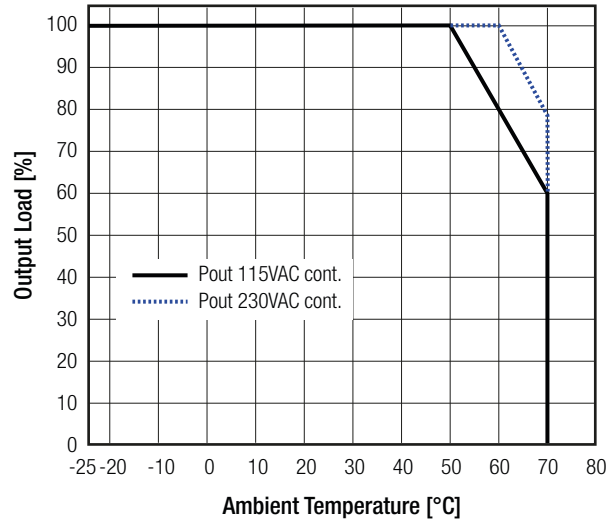
**ENVIRONMENTAL**

Parameter	Condition		Value
Operating Temperature Range	@ natural convection 0.1m/s	full load	-25°C to +50°C
		refer to derating graph	-25°C to +70°C
Temperature Coefficient			0.03%/K
Operating Humidity	non-condensing		20% - 90% RH
IP Rating			IP X0
Pollution Degree (PD)			PD2
Shock			10-500Hz 2G, 60min.
Vibration			10G /11ms, along x,y and z axis
MTBF	according to MIL-HDBK-217F G.B., 25°C		300 x 10 <sup>3</sup> hours

continued on next page

**Specifications** (measured @ Ta = 25°C, rated Vin, rated load and after warm up)

**Thermal Derating**



**SAFETY AND CERTIFICATIONS**

Certificate Type	Report / File Number	Standard
Information Technology Equipment, General Requirements for Safety	E224736 A52	UL60950-1, 2nd Edition, 2014 CSA C22.2 No. 60950-1-07, 2nd Edition, 2014
Industrial Control Equipment	E470721 Vol3 Sec1	UL508, 17th Edition, 2013 CSA C22.2 No. 107.1-01, 3rd Edition, 2011
Information Technology Equipment - General Requirements for Safety (CB Scheme)	16BAS06033 11	IEC60950-1, 2nd Edition:2005, +AM1:2009 + AM2:2013 EN60950-1:2006+ A11:2009 + A1:2010 + A12:2011 + A2:2013
EAC	RU-AT.37.02367	TP TC 004/2011
RoHs 2		RoHs 2011/65/EU

EMC Compliance	Report / Condition	Standard / Criterion
Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement		EN55022:2010 + AC:2011, Class B
Information technology equipment - Immunity characteristics - Limits and methods of measurement		EN55024:2010 + A1:2015
Limitations on the amount of electromagnetic interference allowed from digital and electronic devices		47 CFR FCC Part 15, Subpart B, 2016
Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz		ANSI C63.4, 2014
ESD Electrostatic discharge immunity test	Air ±8kV, Contact ±4kV	EN61000-4-2, Criteria B
Radiated, radio-frequency, electromagnetic field immunity test	3V/m	EN61000-4-3, Criteria A
Fast Transient and Burst Immunity	AC Power Port: ±1kV	EN61000-4-4, Criteria B
Surge Immunity	AC Power Port L-N ±1kV, L-PE + N-PE ±2kV	EN61000-4-5, Criteria B
Immunity to conducted disturbances, induced by radio-frequency fields	AC Power Port 3V	EN61000-4-6, Criteria A
Power Magnetic Field Immunity	50Hz, 1A/m	EN61000-4-8, Criteria A
Voltage Dips and Interruptions	Voltage Dips >95%	EN61000-4-11, Criteria B
	Voltage Dips 30%	EN61000-4-11, Criteria C
	Voltage Interruptions >95%	EN61000-4-11, Criteria C
Limits of Harmonic Current Emissions		EN61000-3-2:2014, Criteria A
Voltage Fluctuations & Flicker		EN61000-3-3:2013