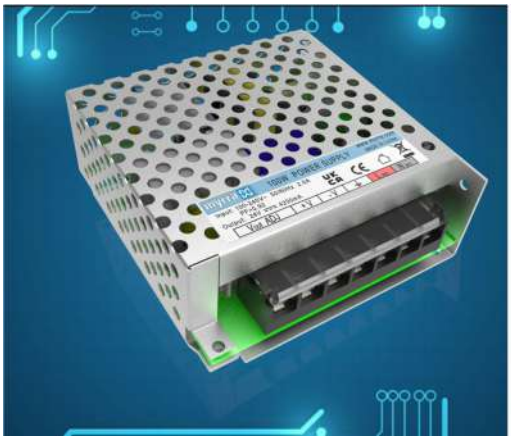
AC/DC INDUSTRIAL POWER SUPPLY-100W

Power Supplies

100W SERIES



MAIN FEATURES:

- 100W Small Compact Size
- Built-in Active PFC Function:>0.92
- Regulated Output Range: 5.0VDC–48VDC
- Input Range: 85VAC – 305VAC/47 – 63Hz or 120VDC – 430VDC
- Very Low Standby Power Consumption ≤0.3W
- High Energetic Efficiency: Meets the requirements of Energy Star and the EC Code of Conduct
- Safety : Meets IEC/EN61558-2-16, IEC/EN60335-1, IEC/EN62368-1, UL62368-1, CSA C22.2NO.62368-1-14, CE, UKCA
- EMC: Conducted and Radiated Emission conform to EN55032, FCC Part 15, CLASS B, EN/IEC61000-3-2 CLASS C ,EN61000-3-3
- Immunity conforms to EN61000-4-2,EN/IEC61000-4-3,E61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11

UK CA CE RoHS

DATA SHEET

Part No	Power Rating Watts	Output Voltage (VDC)	Rated Output Current (A)	Output Voltage Range - ADJ(V)	Ambient Temp. (°C) Refer to "DERATING GRAPH"	Efficiency Typical	Input Range
49050N	90	5.0	18	4.75 ~ 5.75	-25°C ~ +70°C	>87%@230VAC	85 ~ 265VAC (120-430VDC)
49120N	102	12	8.5	11.4 ~ 13.8	-25°C ~ +70°C	>90%@230VAC	
49150N	105	15	7.0	14.25 ~ 18.5	-25°C ~ +70°C		
49240N	108	24	4.5	22.8 ~ 28.8	-25°C ~ +70°C		
49360N	108	36	2.8	34.2 ~ 39.6	-25°C ~ +70°C		
49480N	110	48	2.3	43.2 ~ 52.8	-25°C ~ +70°C		

NOTE : Other output voltage are available upon request.

Please refer to MYRRA's website and catalogue for MYRRA SMPS application notes.

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Model : 100 Watt		Specifications
AC Input Characteristics	Rated Input Voltage	100~277 VAC or 140VDC-390VDC
	Input Voltage Range	85~305VAC or 120VDC-430VDC
	AC Input Frequency Range	47Hz~63Hz
	Rated AC Input Frequency	50/60Hz
	Input Current	2.0A Max@85VAC~305VAC, at full load
	Input Inrush Current	65A Max @305VAC input, cold start, full load
	Standby Power	0.3W Max (Meets the Requirements of Energy Star and the EC Code Of Conduct)
	Power Factor	>0.92@230V input at full load
	Leakage Current	＜0.75mA/305VAC
DC Output Characteristics	Output Voltage Accuracy	±2% (Output Voltage ADJ Range See table)
	Output Voltage Line Regulation	± 0.5%
	Output Voltage Load Regulation	± 1%
	Ripple & Noise	Max 180mVp-p@ Rated AC input, at nominal line (The measuring will be terminated with a 47μF AL E-Cap and a 0.1μF Ceramic-Cap. An oscilloscope set at 20MHz bandwidth)
	Dynamic Response	The output voltage shall not exceed ± 10% rated output voltage @ 50% ← → 100 % Load change, 1A/μS, 1KHz 50% duty cycle
	Hold Up Time	5mS min@ 100 VAC~240VAC, DC output with full load
	Turn On Delay	3S max @ 85VAC~305VAC input and DC output with full load
	Rise Time	50ms max @ 85VAC~305VAC input and DC output with full load
	Overshoot	The output voltage shall not exceed +10% rated output voltage @ Power on and 85VAC~305VAC input, and DC with full load
	Undershoot	The output voltage shall not exceed -10% rated output voltage @ Power off and 85VAC~305VAC input and DC output with full load

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	Efficiency	See table (Meets the requirements of Energy Star and the EC Code of Conduct)
Protection Characteristics	Over Current Protection	The power supply shall automatic protection. The power supply shall auto-recovery normal operations after the deformation is removed. No excessive heat, odour, or plastic deformation shall occur with no safety hazard
	Output Short Circuit Protection	The power supply shall withstand a continuous output short without damage in 24 hours; The short may be applied before power on, or after power on; The power supply shall resume normal operation after the short is removed, no excessive heat, odour or plastic deformation shall occur with no safety hazard.
	Over temperature protection	The power supply is built thermal protection function and can be shut down(hiccup mode) when NTC thermistor's body temperature reach approx.110°C@ power supply operating ambient temperature apprxo.+80°C ±10°C @ at the DC output with full load. The power supply shall auto-recovery normal operation,it is subject to the shut-down is long enough to allow the thermal detection is down to auto reset.
Environmental	Operation Temperature	-25°C~+70°C (Refer to« DERATING GRAPH »)
	Operation Humidity	10~90% RH (No Condensing) @ full load
	Storage Temperature	-10°C~ +35°C
	Storage Humidity	<75%RH
	Cooling Method	Ordinary or thermostat
Safety & EMC Requirement	Dielectric Strength	Input to Output : 4000VAC 5mA, 3 sec. Input to GND: 2000VAC 10mA, 3 sec. Output to GND: 1250VAC 10mA, 3 sec
	Insulation Resistance	100MΩ max @500Vdc
	Radiation	Meets EN55032, FCC part 15 Class B. under 3dB margin
	Conduction	Meets EN55032, FCC part 15 Class B. under 3dB margin
	Harmonic Current Distance	Meets EN/IEC61000-3-2:2019, Class C

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Safety & EMC Requirements	Voltage Fluctuation and Flicker	Meets EN61000-3-3:2013
	Electrostatic Discharge	Meets EN61000-4-2 : 2009, Contact Discharge ± 6KV, Air Discharges ± 8KV
	RF Field Strength Susceptibility	Meets EN/IEC61000-4-3:2019, 10V/m
	Electrical Fast Transient	Meets EN61000-4-4:2012, ± 4KV
	Lightning Surge	Meets EN61000-4-5:2014,±6KV common mode,±4KV diff.mode
	Conducted Susceptibility	Meets EN61000-4-6:2014, 10Vr.m.s
	Power Frequency Magnetic Field Susceptibility Test	Meeting EN61000-4-8:2010, 30A/m
	Voltage Dips and interruptions	Meets EN61000-4-11:2004, 0%,70%
	Safety Standards	Meets all requirements of : UL62368-1, CSA C22.2 NO.62368-1-14 IEC/EC62368-1 IEC/EN60335-1 IEC/EN61558-2-16 CE,VDE,ENEC,UKCA
Reliability Requirement	MTBF	300K Hours Min. @230VAC input, 25deg.C *Calculated according to MIL-HDBK-217-F2*
	Burn-in-Test	The unit shall be burned in 2~5hours under 230VAC input and DC with full load at and ambient temperature of 30~45 degrees C
Mechanical	Physical size	The units dimension is : (L)99*(W)97*(H)30mm (±0.5mm) (see appearance drawing)
	Net Weight	Approximately 260 grams per product unit
Guarantee	This product is in accordance with the European RoHS & REACH directives	

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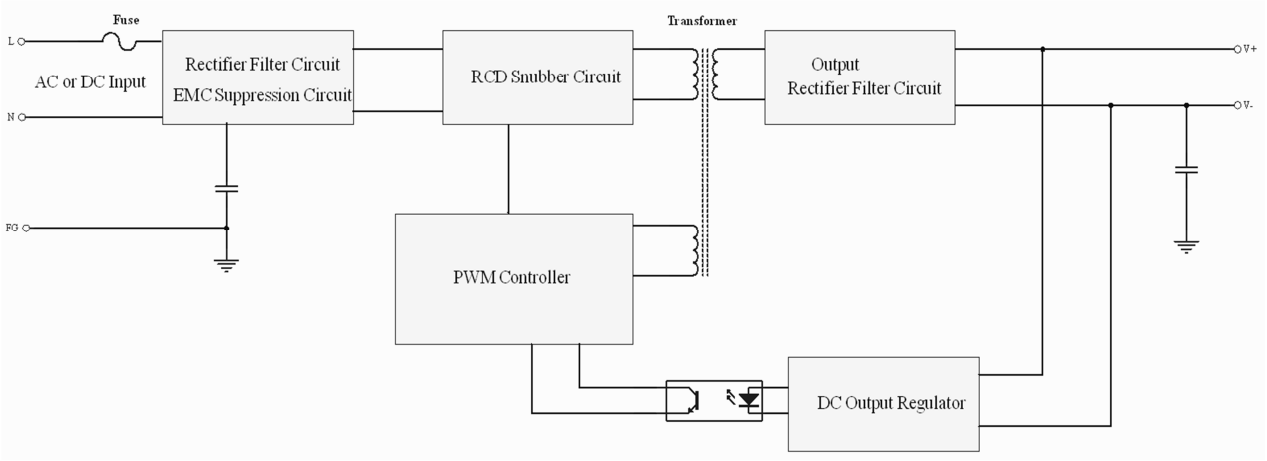
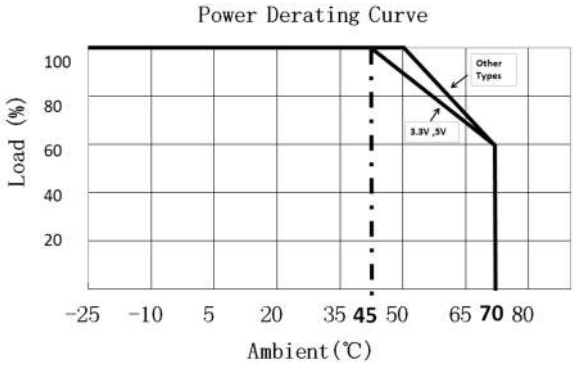
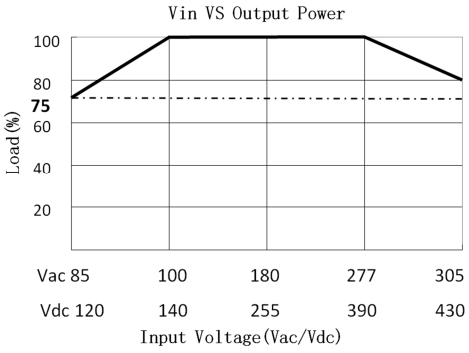
SCHEMATIC

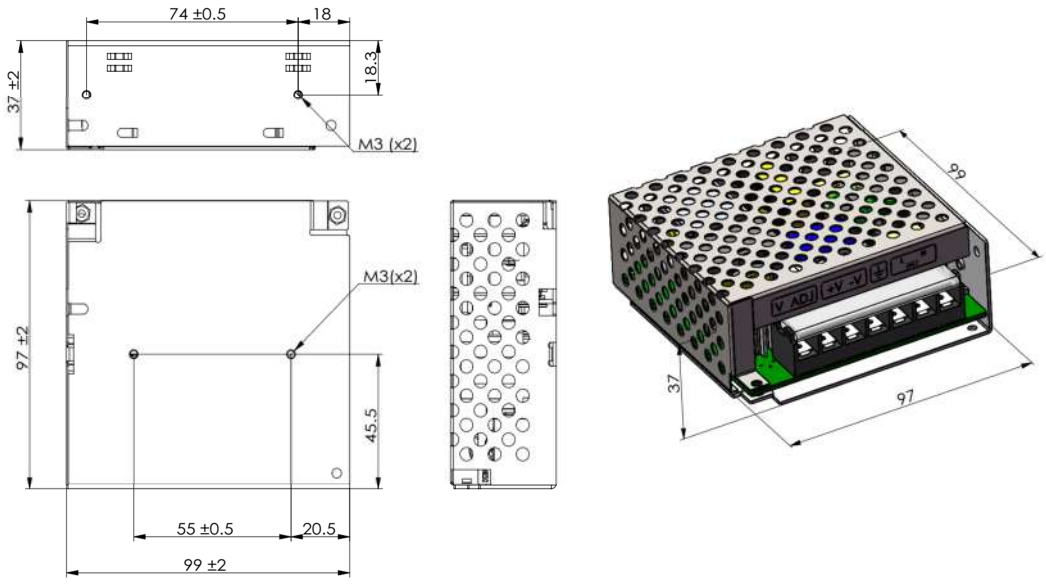


DERATING GRAPH





DIMENSIONS



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