ONE OUTPUT 100W



MAIN FEATURES

- Small Compact Size
- Buit -in Active PFC >0.95
- Regulated Output Range: 5.0VDC 48VDC
- Input Range: 85VAC 305VAC/47 63Hz Or 120VDC - 430VDC
- Very Low Standby Power Consumption ≤ 0.2W
- Better Energetic Efficiency : Meet Requirements Of Energy Star And EC Code Of Conduct
- Safety: Compliance With All Requirements of IEC/EN61558-2-16, IEC/EN60335-1, IEC/EN62368-1,UL62368-1, CSA22.2No.62368-1-14 CE,UKCA Mark
- EMC : Conducted And Radiated Emissions Conform To EN55032, FCC Part 15, CLASS B, IEC/EN61000-3-2 CLASS A, EN61000-3-3 without any additionalcomponents.
- Immunity Conform To: EN61000-4-2, IEC/EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11

Part Number	Output Power (W)	Output Voltage (VDC)	Rated Output Current (A)	Output Voltage Range- ADJ(Vdc)	Max.Operating Ambient (°C)	Min. Part Efficiency(%)	Input Range
51301	75	5	15.0	4.75 ~ 5.75	70	85	
51302	90	9	10.0	8.55 ~ 10.30	70	86	
51303	100(102max.)	12	8.4 (8.5max.)	11.40 ~ 13.80	70	86	
51304	100(105max.)	15	6.7 (7.0max.)	14.25 ~ 18.50	70	86	85 ~ 305VAC (120-430VDC)
51305	100(105max.)	18	5.6 (5.8max.)	17.50 ~ 20.50	70	88	
51306	100(108max.)	24	4.2 (4.5max.)	22.80 ~ 28.80	70	88	
51307	100(110max.)	36	2.8(3.05max.)	34.20 ~ 39.60	70	89	
51308	100(110max.)	48	2.1 (2.3max.)	43.20 ~ 52.80	70	89	

DIMENSIONS

















Power Supplies

Model:100 Watt		Specification				
	Rated AC input Voltage	100~277 VAC or 140VDC-390VDC				
AC Input Characteristics	AC 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.				
	Standby Power	0.2W Max.(Meet Requirements Of Energy Star And EC Code Of Conduct)				
	Leakage Current	< 0.75mA/305VAC				
	Output Voltage Accuracy	± 2 % (Output Voltage ADJ Range See table)				
	Output Voltage Line Regulation	±0.5%				
DC Output Characteristics	Output Voltage Load Regulation	±1%				
	Ripple & Noise	Max. 180mVp-p@ Rated AC input, at nominal line (The measuring will be terminated with a 47uF ALE-Cap and a 0.1uF 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/uS , 1KHz 50% duty cycle				
	Hold Up Time	5mS min@ 100Vac ~277Vac, 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				
Protection Characteristics	Over Current Protection	The power supply shall automatic protect. The power supply shall auto-recover normal operation after the deformation is removed. No excessive heat, odour, 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, no safety hazard				
	Over temperature protection	The power supply is built thermal protection function and can be shutdown(hiccup mode) when NTC thermistor's body temperature reach approx.110°C; 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.				
	Operation Temperature	-25°C ~+70 °C (Refer to DERATING GRAPH)				
Faulia and a stal	Operation Humidity	10~ 90% RH(No Condensing) @ DC output with full load				
Environmentai	Storage Temperature	+5°C to +35°C				
	Cooling Method	Ordinary or thermostat				
Safety & EMC Requirement	Dielectric Strength	Input to Output : 3750VAC 5mA, 3 sec. Input to GND: 2000VAC 10mA, 3 sec. Output to GND: 1250VAC 10mA, 3 sec				
	Insulation Resistance	100MΩ max @500Vdc				
	Radiation/ Conduction	Meeting EN55032,FCC part 15, Class B				
	Harmonic Current Disturbance	Meeting IEC/EN61000-3-2:2019, Class C				
	Voltage Fluctuation And Flicker	Meeting EN61000-3-3:2013				
	Electrostatic Discharge	Meeting EN61000-4-2:2009 Contact Discharge ±6KV,Air Discharge ±8KV				
	RF Field Strength Susceptibility	Meeting IEC/EN61000-4-3:2019				
	Electrical Fast Transient	Meeting EN61000-4-4:2012, ±4KV				
	Lightning Surge	Meets EN61000-4-5:2014,±6KV common mode,±4KV diff.mode				
	Conducted Susceptibility	Meeting EN61000-4-6 : 2014				
	Voltage Dips And Interruptions	Meeting EN61000-4-11 : 2004				
	Safety Standards	Compliance With all requirements of : UL62368-1, CSA22.2No.62368-1-14, IEC/EN60335-				
Reliability Requirement		200K Hours @230VAC input at 50deg.C and DC output with full load				
	IVI I BF	>450K Hours @230VAC input at 25deg.C and DC output with full load				
		Calculated in accordance with MIL-HDBK-217-F2				
	Burn-In Test	temperature of 30~45 degrees C				
Net Weight	About 260 grams per product unit					
Guarantee	This product is in accordance with the European RoHS & REACH directives					

Myrra reserve the right to change specifications in this document without notice