ONE OUTPUT 1W to 3W - Small Compact Size



MAIN FEATURES:

- Small Compact Size PCB Mount
- Single Output
- Output Range : 3.3VDC 24VDC
- Input Range: 85VAC 265VAC/47 63Hz Or 120VDC - 370VDC
- Very Low Standby Power Consumption < 0.15W
- Better Energetic Efficiency : Meet Requirements
 Of Energy Star And EC Code Of Conduct
- Encapsulated Design And Same Footprint As EE20 Transformer: Upgrade Your Application Without Redesign Of PCB

- Safety: IEC/EN61558-2-16, IEC/EN60950,
 IEC/EN60335, UL/CUL60950, CE, VDE, ENEC Mark
- Materials: Uses UL 94-V0 Plastic And Resin
- EMC: Conducted And Radiated Emissions Conform To EN55014 CLASS B, EN55032 CLASS B And FCC Part 15
- Immunity Conform To EN61000-3-3,EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11

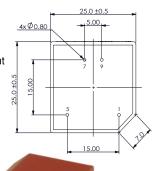
Part Number	Output Power (W)	Output Voltage (Vdc)	Output Current (mA)	Output Load Regulation (%)	Max.Operating Ambient (°C)	Min. Part Efficiency(%)
48021	1	3.3	300	± 6	80	60
	2.5		750		60	63
	2.75		830		50	
48022	1	5	200	± 5	80	60
	2.5		500		60	65
	3		600		50	
48023	1	9	110		80	67
	2.5		280		70	70
	3		330		60	
48024	1	12	84		80	67
	2.5		210		70	72
	3		250		60	
48025	1	15	67		80	67
	2.5		170		70	72
	3		200		60	
48026	1	18	56		80	67
	2.5		140		70	72
	3		170		60	
48027	1	24	42		80	70
	2.5		105		70	74
	3		125		60	, -

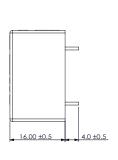
DIMENSIONS and PINOUT

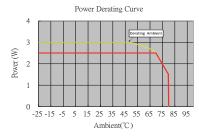
4 pins

PRI: Pins 1 – 5: AC or DC Input

SEC : Pin 7 : DC Output +V Pin 9 : DC Output 0V

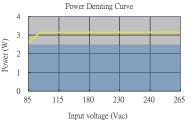


















Model: 1 to 3 Watt		Specification			
	Rated AC input Voltage	100~240Vac or 140VDC-340VDC			
AC Input	AC Input Voltage Range	85~265Vac or 120VDC-370VDC			
	AC Input Frequency Range	47Hz~63Hz			
Characteristics	Rated AC Input Frequency	50/60Hz			
	Input Current	0.15A Max@85Vac~265Vac, at full load			
	Standby Power	0.15W Max(Meet Requirements Of Energy Star And EC Code Of Conduct)			
DC Output Characteristics	Output Voltage Accuracy	3.3V type: ± 6 % Other types(5V,9V,12V,15V,18V and 24V): ± 5 %			
	Output Voltage Line Regulation	3.3V type: ± 5 % Other types(5V,9V,12V,15V,18V and 24V): ± 3 %			
	Output Voltage Load Regulation	3.3V type: ± 6 % Other types(5V,9V,12V,15V,18V and 24V): ± 5 %			
	Ripple & Noise	Max 200mVp-p@ Rated AC input, at nominal line (The measuring will be terminated with a 47uF AL E-Cap and a 0.1uF Ceramic-Cap. An oscilloscope set at 20MHz bandwidth)			
	Dynamic Response	The output voltage shall not exceed $\pm 10\%$ rated output voltage @ $50\% \leftarrow \rightarrow 100\%$ Load change, 1A/uS , 1KHz 50% duty cycle			
	Hold Up Time	5mS min@ 100Vac ~240Vac, DC output with full load			
	Turn On Delay	3S max @ 85Vac~265Vac input and DC output with full load			
	Rise Time	50ms max @ 85Vac~265Vac input and DC output with full load			
	Overshoot	The output voltage shall not exceed +10% rated output voltage @ Power on and 85Vac~265Vac input, and DC with full load			
	Undershoot	The output voltage shall not exceed -10% rated output voltage @ Power off and 85Vac~265Vac input and DC output with full load			
	Efficiency	See table (Meets Requirements Of Energy Star And EC Code Of Conduct)			
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, odor, 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, odor, or plastic deformation shall occur with no safety hazard			
	Over temperature protection	The power supply shall shut down when the junction temperature of PWM controller exceeds the thermal shutdown temperature, typically 140°C ±10°C			
	Operation Temperature	-25°C ~+ (see table)			
Environmental	Operation Humidity	10~ 90% RH(No Condensing) @ full load			
	Storage Temperature	-40°C~ +85°C			
	Storage Humidity	5%~95%			
	Cooling Method	Ordinary or thermostat			
Safety & EMC Requirement	Dielectric Strength	Primary to Secondary: 4000Vac 5mA, 3 secs.			
	Radiation	Meeting EN55032,EN55014,FCC part 15, Class B. under 3dB margin			
	Conduction	Meeting EN55032,EN55014, FCC part 15,Class B. under 3dB margin			
	Harmonic Current Disturbance	Meeting EN61000-3-2:2014, Class A			
	Voltage Fluctuation And Flicker	Meeting EN61000-3-3:2013			
	Electrostatic Discharge	Meeting IEC61000-4-2:2008 Contact Discharge ±4KV,Air Discharge ±8KV			
	RF Field Strength Susceptibility	Meeting IEC61000-4-3:2006+A1:2007+A2:2010			
	Electrical Fast Transient	Meeting IEC61000-4-4:2012, ±1KV			
	Lightning Surge	MeetingIEC61000-4-5:2014, ±1KV (surge level can be extended to 6KV with an external circuit - please refer to MYRRA's website and catalogue for MYRRA SMPS application notes).			
	Conducted Susceptibility	Meeting IEC61000-4-6 : 2013			
	Voltage Dips And Interruptions	Meeting IEC61000-4-11 : 2004			
	Safety Standards	Meet all requirements of : UL/CUL60950, UL/CUL62368, IEC/EN60950, IEC/EN60335,IEC/EN61558-2-16, IEC/EN62368, CE, VDE, ENEC Mark			
Reliability Requirement	МТВГ	Calculated by MIL-HDBK-217-F2 >200K Hours @230VAC input at max operation temperature; >550K Hours @230VAC input at 25deg.C			
	Burn-In Test	The unit shall be burned in for 2~ 5hours under 230Vac input and DC with full load at an ambient temperature of 30~45 degrees C			
Net Weight	About 16 grams per product unit	About 16 grams per product unit			
Guarantee	This product meets RoHS standard				