

ONE OUTPUT 1W to 3W - Small Compact Size

NEW

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



DIMENSIONS and PINOUT

4 pins

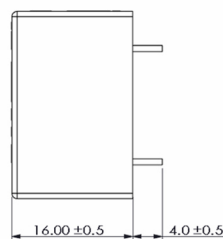
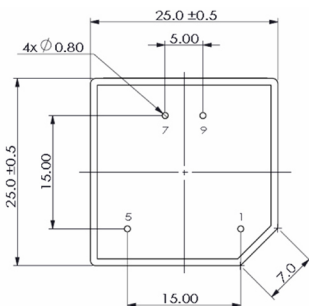
PRI:

Pins 1 – 5: AC or DC Input

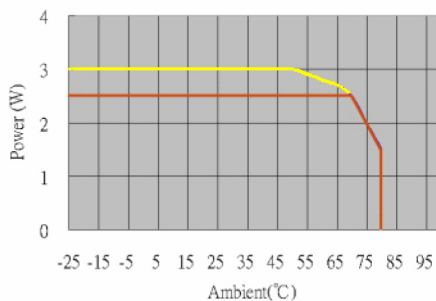
SEC:

Pin 7 : DC Output +V

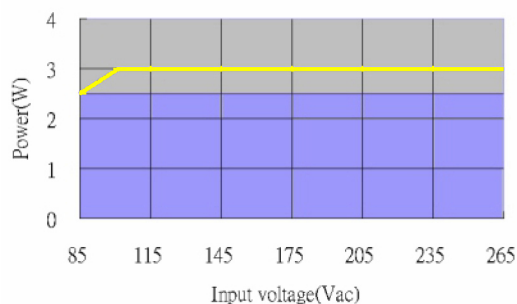
Pin 9 : DC Output 0V



Power Derating Curve



Power Derating Curve



Model: 1 To 3 Watt		Specification
AC Input Characteristics	Rated AC input Voltage	100~240Vac or 140VDC-340VDC
	AC Input Voltage Range	85~265Vac or 120VDC-370VDC
	AC Input Frequency Range	47Hz~63Hz
	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	± 5%
	Output Voltage Line Regulation	± 2 %
	Output Voltage Load Regulation	± 5%
	Ripple & Noise	Max 180mVp-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 ±10% rated output voltage @ 10% ↔ 90% 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.
Environmental	Operation Temperature	-25°C ~+ (see table)
	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	Meet EN55032,EN55014,FCC, part 15, Class B. under 3dB margin
	Conduction	Meet EN55032,EN55014, FCC, part 15,Class B. under 3dB margin
	Lightning Surge	EN61000-4-5:2014,±1KV (surge level can be extended to 6KV with an external circuit - please refer to MYRRA's website and catalogue for 47 series application notes).
	Safety Standards	Meet all requirements of UL/CUL60950, IEC/EN60950, IEC/EN60335, IEC/EN61558-2-16, CE,VDE, ENEC Mark
Reliability Requirement	MTBF	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	
Guarantee	This product meets RoHS Standard	