Industrial Adapter 12V Series

Single Output 60W Non-PFC Data Sheet

Description

This series is class 1, single-output AC to DC 60W green adapter with C14 inlet type. It can be operated from AC 90V~264V with good efficiency performance for various ITE, industrial and networking application. It also complies world-wide Safety and EMC regulations.

Features

- * Full AC input voltage design with C14 socket
- * Withstand 300Vac surge voltage for 5 seconds
- * Full Protections: Short-circuit/ Over-voltage/
- Over-current/ Over temperature operating.
- * Energy efficiency level VI compliance
- * With LED indicator
- * IEC/EN 62368-1 design compliance
- * Up to 5000 meters operating altitude (note #4)
- * High reliability

Electrical Specification





Model Name PA-1061-82B1 Output Rated power 60W 12V Rated voltage Rated current 5.0A 100mV Ripple & Noise(max.) (note #2) Line & load regulation ±5% Hold-up time(typ.) 10ms Timing: AC ON delay / rising 3 sec / 30ms (max.) Input Rated voltage range 100~240Vac Operated voltage range 90~264Vac, 300Vac for 5 sec Current range (max.) 1.6A/100Vac Inrush current No component damaged (<I²*t). Frequency range 50-60Hz





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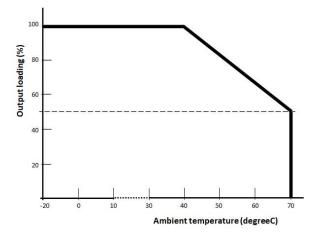
Leakage current (max.)Average efficiency (typ.)Protection FunctionOver voltage (max.)Over current (max.)Short circuit at O/POver temperature	0.25mA at 240Vac 89% 150% of rated voltage, latch-off protection 160% of rated current, hiccup mode protection until fault is removed No damage, hiccup mode protection until fault is removed No damage, auto recovery until temperature is back to normal
Protection FunctionOver voltage (max.)Over current (max.)Short circuit at O/P	150% of rated voltage, latch-off protection 160% of rated current, hiccup mode protection until fault is removed No damage, hiccup mode protection until fault is removed
Over voltage (max.) Over current (max.) Short circuit at O/P	160% of rated current, hiccup mode protection until fault is removed No damage, hiccup mode protection until fault is removed
Over current (max.) Short circuit at O/P	160% of rated current, hiccup mode protection until fault is removed No damage, hiccup mode protection until fault is removed
Short circuit at O/P	No damage, hiccup mode protection until fault is removed
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Over temperature	No damage, auto recovery until temperature is back to normal
Others	
MTBF (min.) (note#3)	500K hours @ rated load
Environment	
Temperature (note#5)	(operating) -20~70°C / (storage) -40~85°C
Humidity	(operating) 10~90% RH non-condensing / (storage) 5~95% RH
Altitude (max.)	5000 meters
Mechanical	
Dimension	127(L)*51.5(W)*32 (H) mm
Vibration	10~500 Hz, 5G 20min./1cycle per axis for all axes (X, Y, Z)
Weight (typ.)	280g
Safety	
Standard	CB/IEC62368-1,TUV62368-1,UL62368-1,EN62368-1,
	CCC GB4943.1,PSE J62368-1
Withstand voltage	Input-Output: 4242VDC / Input-FG: 2150VDC
Isolation resistance(min.)	Input-Output: 30Mohm @ 500VDC, 25°C, 70%RH
EMC	
EN55032 (CISPR32)	Conducted EMI: class B / Radiated EMI: class B
FCC	Conducted EMI: class B / Radiated EMI: class B
EN61000-3-2	Harmonic distortion: Class A (Pin < 75W)
EN61000-4-2	ESD: ±8KV contact discharge / ±15KV contact discharge
EN61000-4-3	Radiated RF immunity: 3V/m
EN61000-4-4	EFT: ±1KV (AC port)
EN61000-4-5	Surge: ±2KV DM / ±4KV CM
EN61000-4-6	Conducted RF immunity: 3V/m
EN61000-4-8	Magnetic field immunity: 3A/m
EN61000-4-11	Voltage dip immunity

Notes

#1: All specification defined at 230Vac/50Hz, rated power and 25° C ambient temperature if not mentioned specifically.

#2: Ripple noise is measured with 0.47uF MLCC & 47uF low ESR capacitor.

- #3: Calculated by Telcordia SR332 at 25° C ambient temperature.
- #4: When operating altitude is higher than 2000m, the environment temperature derating factor is 0.36°C/100m.
- #5: De-rating curve of ambient temperature:



Mechanical Specification

