Industrial Adapter 19V Series



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Single Output 65W Non-PFC Data Sheet

Description

This series is class 1, single-output AC to DC 65W green adapter with C6 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 C6 socket
- * Withstand 300Vac surge voltage for 5 seconds
- * Full Protections: Short-circuit/ Over-voltage/

Over-current/ Over temperature operating.

- * Energy efficiency level VI compliance
- * IEC/EN 62368-1 design compliance
- * Up to 5000 meters operating altitude (note #4)
- * High reliability



Electrical Specification

Model Name	PA-1650-50E1
Output	
Rated power	65W
Rated voltage	19V
Rated current	3.42A
Ripple & Noise(max.) (note #2)	380mV
Line & load regulation	±5%
Hold-up time(typ.)	10ms
Timing: AC ON delay / rising (max.)	2 sec / 30ms
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 (<i<sup>2*t).</i<sup>
Frequency range	50-60Hz
Leakage current (max.)	0.05mA at 240Vac

Average efficiency (typ.)	89%	
Protection Function		
Over voltage (max.)	150% of rated voltage, latch-off protection	
Over current (max.)	160% of rated current, latch-off protection	
Short circuit at O/P	No damage, latch-off protection	
Over temperature	No damage, latch-off protection	
Others		
MTBF (min.) (note#3)	500K hours @ rated load	
Environment		
Temperature	(operating) 0~35°⊂ / (storage) -20~85°⊂	
Humidity	(operating) 10~90% RH non-condensing / (storage) 5~95% RH	
Altitude (max.)	5000 meters	
Mechanical		
Dimension	107.0(L)*47.0(W)*30 (H) mm	
Vibration	10~500 Hz, 5G 20min./1cycle per axis for all axes (X, Y, Z)	
Weight (typ.)	230g	
Safety		
Standard	CB/IEC62368-1,TUV62368-1,UL62368-1,EN62368-1,	
	CCC GB4943.1,PSE J62368-1,BSMI CNS15598-1,KC62368-1	
Withstand voltage	Input-Output: 4242VDC / Input-FG: 2150VDC	
Isolation resistance(min.)	Input-Output: 30Mohm @ 500VDC, 25℃, 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: ±1KV DM / ±2KV 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.

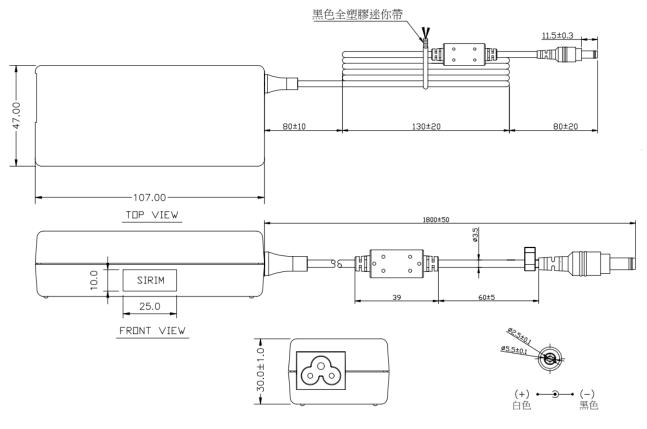
#2: Ripple noise is measured with 0.47uF MLCC & 47uF low ESR capacitor.

#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.

Mechanical Specification

PA-1650-50E1



LEFT VIEW