

Industrial Adapter 19V Series

LITEON[®]

Single Output 65W Non-PFC Data Sheet

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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 ² *t).
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°C / (storage) -20~85°C
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°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: ±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

