

PD Charger Wall Mount Series

Single Output 65W Data Sheet



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Description

This specification defines the performance characteristics of single phase, 65watt, compatible USB-PD 3.0 and Quick Charge 2.0/3.0, 1 outputs power supply. This specification also defines worldwide safety and electromagnetic compatibility requirements for the power supply which is intended for use in IA products.

Features

- * Full AC input voltage range design.
- * Support for QC2.0 / QC3.0 / PD3.0.
- * Full Protections: Short-circuit/ Over-voltage/ Over-current/ Over temperature.
- * Less than 100mW low standby power.
- * IEC/EN 62368-1 design compliance.
- * Up to 5000 meters operating altitude.
- * High power density and small size design.
- * AC plug is foldable.



Electrical Specification

Model Name	PA-1650-67VN				
Output					
Rated power	65W				
Rated voltage	5V	9V	12V	15V	20V
Rated current	3A	3A	3A	3A	3.25A
Ripple & Noise(max.) (note #1)	380mV				
Line & load regulation	±5%				
Hold-up time(min.)	5ms/115Vac				
Timing: AC ON delay / rising (max.)	5 sec / 275ms				
Input					
Rated voltage range	100~240Vac				
Operated voltage range	90~264Vac				
Current range (max.)	1.7A				
Power factor (typ.)	N/A				
Inrush current (typ.)	limited to a 29% margin of the I2t rating of fuse and bridge rectifier				
Frequency range	50-60Hz				

Leakage current (max.)	100uA at 250Vac
Efficiency (typ.)	88.0%/65W
Protection Function	
Over voltage (max.)	145% of rated voltage, latch-off protection
Over current (max.)	4.5A , latch-off protection
Short circuit at O/P	No damage, latch-off protection.
Over temperature	No damage, latch-off protection
Others	
MTBF (min.) (note#2)	100K hours @ rated load
Environment	
Temperature	(operating) 0~35°C / (storage) -20~85°C
Humidity	(operating) 10~95% RH non-condensing / (storage) 5~95% RH
Altitude (max.)	5000 meters
Mechanical	
Dimension	50(L)*50(W)*28mm(H)
Temperature rise of case (note #3)	ΔT less than 50°C
Weight (typ.)	115g
Safety	
Standard	CB/IEC62368-1,UL62368-1,PSE J62368-1,BSMI CNS15598-1
Withstand voltage	Input-Output: 4242VDC
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: ± 8 KV contact discharge / ± 15 KV contact discharge
EN61000-4-3	Radiated RF immunity: 3V/m
EN61000-4-4	EFT: ± 1 KV (AC port)
EN61000-4-5	Surge: ± 1 KV DM / ± 2 KV CM
EN61000-4-6	Conducted RF immunity: 3V/m
EN61000-4-8	Magnetic field immunity: 1A/m
EN61000-4-11	Voltage dip immunity: Criteria B

Notes

#1: Ripple noise is measured by a 1.5m length, twisted wires with 0.47uF MLCC & 10uF low ESR capacitor.

#2: Input voltage is 115Vac and 230Vac, output is rated load at 25°C.

#3: 100Vac and rated load at 35°C ambient temperature.

Mechanical Specification

