

PD Charger Wall Mount Series

Single Output 65W Data Sheet

LITEON

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Description

This specification defines the performance characteristics of single phase, 65 WATT, 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-1650-67 | | | | | |
|-------------------------------------|--|----|-----|-----|-------|---------|
| Output | | | | | | |
| Rated power | 65W | | | | | |
| Rated voltage | 5V | 9V | 12V | 15V | 20V | 3.3~21V |
| Rated current | 3A | 3A | 3A | 3A | 3.25A | 3A |
| 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.) | 105g |
| Safety | |
| Standard | IEC/EN 60950-1, K60950-1, IEC/EN 62368-1, CNS14336-1 |
| 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: The power less than 75W and no limit apply |
| 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: 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

