

Item no.: 19.11.1034

ROLINE USB Type C Power Adapter with 3-pin socket, black



Features:

- For Charging of mobile devices (tablets/smartphones/notebook/netbook)
- Fast Charging & Power Delivery protocol supported
- Multi-Protection: Over Current / Short Circuit / Over Voltage Protection
- Compact Design
- PowerIQ technology – identifies what kind of device is plugged into and delivers the proper voltage/amperage
- Input: 100 ~ 240 VAC 50/60Hz, Max. 1.5A
- Output: USB C: PD (5V, 3A; 9V, 3A; 12V, 3A; 15V, 3A; 20V, 3.25A) max. 65W

Electrical Specification

Electrical Requirements

1. Input Characteristics:

ITEM	CONDITION	SPECIFICATION
1.1 Rated Input Voltage		100-240Vac
1.2 Input Voltage Range		90Vac to 264Vac
1.3 Input Frequency Range		47-63Hz
1.4 Input Current	Input: 90Vac 47Hz Output: 20VDC 3.25A load	≤1.5A
1.5 Efficiency: (Warm up 10minutes later)	Input: 100-240Vac 50Hz Output Load: 25%,50%,75%,100% load	Average efficiency compliant with DoE VI Standards: Output 5V3A : ≥81.39% Output 9V3A : ≥86.62% Output 12V3A : ≥87.40% Output 15V3A : ≥87.73% Output 20V3.25A : ≥88%
1.6 No Load Power Consumption	240Vac50Hz / 0A load	≤0.1W

2. Output Characteristics:

ITEM	CONDITION	SPECIFICATION
2.1 Output Rated Voltage		5/9/12/15/20VDC
2.2 Output Current	at constant voltage mode	3A@5V, 3A@9V, 3A@12V, 3A@15V, 3.25A@20V
2.3 Output Voltage Setting	at the cable terminal	5/9/12/15/20VDC (±0.5V)
2.4 Output Voltage Ripple and Noise: (0.1uF Ceramic Cap. and 50V 10uF Aluminum Cap. Paralleled between the end of output cable)	5VDC, 3A load 9VDC, 3A load 12VDC, 3A load 15VDC, 3A load 20VDC, 3.25A load	≤100mVp-p ≤100mVp-p ≤150mVp-p ≤150mVp-p ≤150mVp-p
2.5 Output Overshoot Voltage	Input:240Vac Output:5VDC at 0A/3A	≤ 6V
2.6 Turn-On Delay Time:	At input 240Vac / Full load, output voltage shall remain regulation	≤3Sec.
2.7 Hold Up Time:	At input 240Vac / Full load, output voltage shall remain regulation	≥20mS
2.8 Rise Time:	At input 240Vac / Full load, DC output rise time from 5% to 95% of Vo	≤150mS

3. Protection Characteristics:		
ITEM	CONDITION	SPECIFICATION
3.1 Short Circuit Protection:	The charger can withstand continuous short at DC output and no damage.	Auto-Recovery, reset ≤ 1 sec.
3.2 Over Current Protection	The protection current will be: Output Voltage 5V: 4A MAX Output Voltage 9V: 4A MAX Output Voltage 12V: 4A MAX Output Voltage 15V: 4A MAX Output Voltage 20V: 4A MAX	Auto-Recovery, reset ≤ 1 sec.
3.3 Over Voltage Protection	Input: 240Vac Load: 0A/3.25A	$\leq 25V$ Auto-Recovery
4. Environmental Characteristics:		
ITEM	CONDITION	SPECIFICATION
4.1 Electric Fast Transients : Refer to IEC1000- 4-4 level 3	Impulse: $\pm 1kV$ applied to L, N and chassis, pulse duration 50nS period 5 minutes. Input voltage 230Vac and 45W load.	No function error.(criterion A)
4.2 Lightning Surge: Refer to IEC1000-4-5 level 3	$\pm 1kV$ applied between L and N, $\pm 2kV$ applied between L,N and FG, Pulse rise time 1.2us and duty time 50uS, 10 times test each one.	No function error.(criterion A)
4.4 Electron Static Discharge: (Refer to IEC1000-4-2 Energy Storage Capacitor 150pF; Discharge Resistor 330 Ω)	Air Discharge: $\pm 8KV$ min. Contact Discharge: $\pm 4KV$ min.	No function error. (criterion A) No function error. (criterion A)
4.5 Cooling	Natural air cooling	
4.6 EMI: Adapter comply with the following national standards: EMI Conducted Emission EMI Radiated Emission	FCC. DOCKET 20780. PART 15J. CLASS B CISPR22 : 1993/EN55022(1994):CLASS B VCCI CLASSB	Under 3db.
4.7 Safety conforming:	FCC, CE, PSE, SAA, ETL, ROHS, Energy Star	Depends on customer's requirement.
4.8 Leakage Current	230Vac / 50Hz	$< 60\mu A$
4.9 Life time:	240Vac / 65W / 25°C	$\geq 20,000$ Hours.
4.10 Insulation Resistance:	Between AC input and secondary applied 500VDC for 1 minute.	$\geq 100M\Omega$

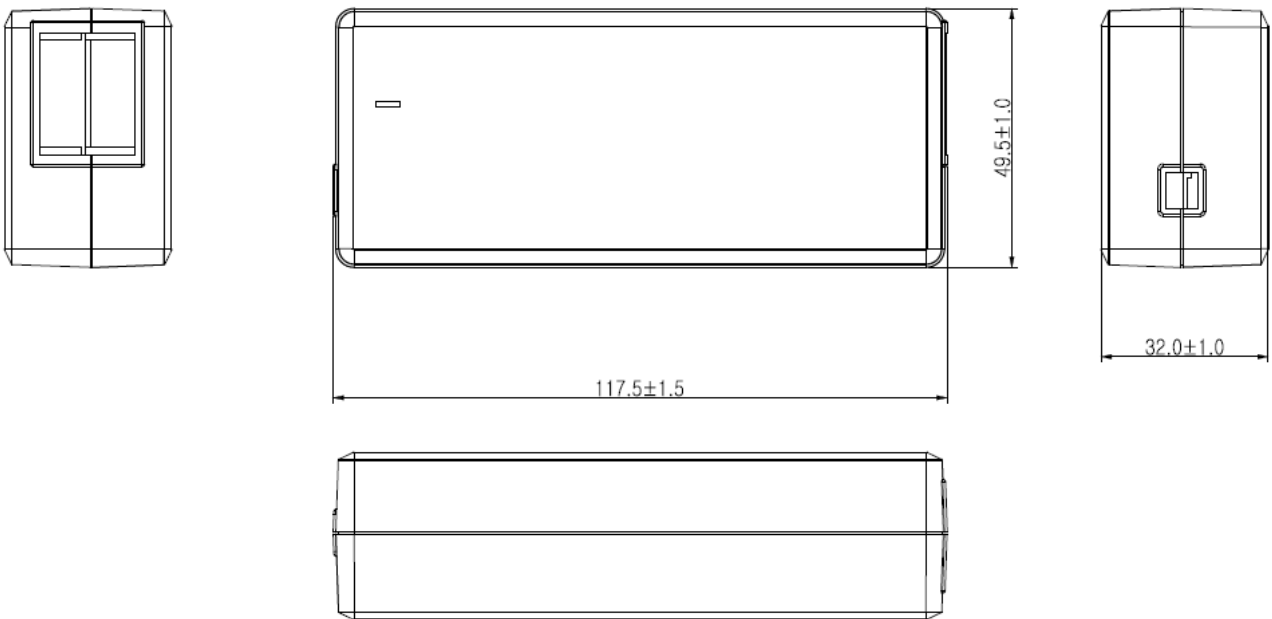
4.11 Dielectric Strength: (Hi-Pot)	Between AC input and secondary AC 3KV, test time 1 minute, and cut off current shall be less than 10mA. AC 3kV, test time 1 sec. In production line	
4.12 Temperature	Operating Temperature: Storage Temperature:	0 to 40°C -20 to +80°C
4.13 Humidity:	Operating Humidity: Storage Humidity:	10% ~ 80% 5% ~ 95%

5. Mechanical Characteristics:

ITEM	CONDITION	SPECIFICATION
5.1 Dimension (Length x Width x Height)		117.5 x 49.5 x 32 mm
5.2 Adapter weight Case material		Weight: 270g Case material: PC
5.3 Input terminal		2PIN
5.4 Output DC Cable		1.2M
5.5 Color Case		BLACK

6. Case Drawing:

ITEM	CONDITION	SPECIFICATION
6.1 Case Model:	/	
6.2 Case Dimension:	Length x Width x Height	117.5 x 49.5 x 32 mm



7. Input Cable Drawing:

ITEM	CONDITION	SPECIFICATION
7.1 Cable Length		
7.2 Cable Terminal Type		

8. Output Cable Drawing:

ITEM	CONDITION	SPECIFICATION
8.1 Cable Length		1200mm
8.2 Cable Terminal Type		USB Type-C Port

