ACT-C0011

100W USB-C PD Adapter with DC Cable

Features

- Input: 100 – 240 VAC 50/60Hz 1.6A Max.
- Output: 5VDC 3A; 9VDC 3A; 12VDC 3A; 15VDC 3A; 20VDC 5A
- Type C 100W PD Adapter
- The Power Supply Size: 137 (L) x 57 (W) x 32 (H) mm
- DC Cable: 1.5m Cable with Type-C Connector
- AC Cable (Optional) : 1.2m US Standard Cable
- Black Color

Appearance

ACT POWER TAIWAN CO., LTD. +886-2-2559-5216
www.actpower.com.tw

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Revision Table

Date	Revision	Content	By
2025/7/11	0.1	First Draft	Elio

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Specification

Input Characteristics					
Input Voltage	Rated Voltage: 100-240VAC Variation Voltage: 90-264VAC				
Input Frequency	Rated Frequency: 50/60Hz Variation Frequency: 47-63Hz				
Input Current	1.6 Amps Max				
Inrush Current	When the output is rated load and the ambient temperature Is 25 °C, the maximum surge current of the input 100-240VAC cold starter should be less than the rated value of the key components (I2T including surge, limiting components such as fuse bridge pile).				
AC Leakage Current	0.25mA Max. at 240VAC Input				
Output Characteristics					
Power Output	**Voltage**	**Min. Load**	**Rated Load**	**Output Range**	**Output Power**
	5VDC	0A	3A	4.9-5.4VDC	15W
	9VDC	0A	3A	8.6-9.5VDC	27W
	12VDC	0A	3A	11.4-12.6VDC	36W
	15VDC	0A	3A	14.2-15.8VDC	45W
	20VDC	0A	5A	19-21VDC	100W
Combined Load/ Line Regulation	**Voltage**	**Min. Load**	**Rated Load**	**Line Regulation**	**Load Regulation**
	5VDC	0A	3A	±5%	±5%
	9VDC	0A	3A	±5%	±5%
	12VDC	0A	3A	±5%	±5%
	15VDC	0A	3A	±5%	±5%
	20VDC	0A	5A	±5%	±5%

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Efficiency	**Average efficiency minimum at 25%, 50%, 75% & 100% of full-loading and 115VAC/230VAC input** 5V Specification DoE Tire-3(Vout=5V, Pout=15W):≥81.38%; 9V Specification DoE Tire-3(Vout=9V, Pout=27W):≥86.6%; 12V Specification DoE Tire-3(Vout=12V, Pout=36W):≥87.40% 15V Specification DoE Tire-3(Vout=15V, Pout=45W):≥87.72% 20V Specification DoE Tire-5(Vout=20V, Pout=100W):≥88%. No Load Input Watt ≤ 0.21W
Overshoot	10% Max. When power supply at turn on or turn off.
Over Current Protection	At power supply outputs 5V、9V、12V、15V, the current reaches 5.5~6.5A, the overcurrent protection will be activated. At power supply outputs 20v, the current reaches 5.3~6A, the overcurrent protection will be activated.
Over Voltage Protection	5V : Max 7.5V 9V : Max 12V 12V : Max 18V 15V : Max 22.5V 20V : Max 26V The power supply shall be latch-off mode when the output is over voltage and the power supply shall not be damaged.
Mechanical Requirement	
Power Supply Size	137 (L) x 57 (W) x 32 (H) mm
Input Connector	3 Pin Input Plug
DC Cable	1.5 m Type-C
AC Cable (Optional)	1.2 m

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Environment Compliance

Operating Temp.	0˚C To 40˚C
Storage Temp.	-40˚C To 85˚C
Humidity	5% ~ 95% (40˚C) RH
Reliability	The power supply shall be burn-in for 2 hours under normal input and 100% rated load at 40˚C ± 5˚C.

Environmental performance may vary according to the integration method or final integration scenario.

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Deliverables

1	100W USB-C PD Adapter with DC Cable
2	AC Cable (1.2m) (Optional)

Reference

Ordering Information

Model Name	Description	Unit
ACT-C0011	100W USB-C PD Adapter with DC Cable	1
	AC Cable (1.2m) (Optional)	

