

FSP045-A1UP3

FEATURES

- Certified IEC 62368-1 & CB 60950-1
- Meet Energy Efficiency DOE Level VI
- Meet Code of Conduct Version 5 Tier 2
- High Reliability
- Foldable USA AC plug



SAFETY STANDARD APPROVAL



DESCRIPTION

This is a 45w USB PD adapter with compact design. It is compatible with USB type C smart phones, tablets, laptops and computers. It is automatically detect devices, providing the most efficient current and output.

INPUT SPECIFICATIONS

Input voltage: 90-264 VAC
 Input frequency: 47-63 Hz
 Input current: 100Vac, 240Vac / full load \leq 1.5A
 No load power consumption 115Vac, 230Vac \leq 0.1W when the USB type-C plug out
 Touch current: 264Vac / 50Hz \leq 0.1mA

OUTPUT SPECIFICATIONS

Output voltage/current: 5V/3A ; 9V/3A ; 12V/3A ; 15/3A ; 20V/2.25A
 Total output power: 45W
 Protection:
 Over voltage: The adapter will enter into shut down that means no output while over voltage happened at output terminal that caused by internal fault, the output trip voltage shall not exceed 24 volts.the power supply shall shut down and enter auto-recovery mode.
 Short circuit & Over current: When an internal fault occurs, or an external fault is applied to the power supply, such that an overload or short circuit is applied to the output, the power supply shall shut down and enter auto-recovery mode.
 Over temperature: The power supply will enter into shut down while the abnormal thermal rise occurs. the power supply shall shut down and enter auto-recovery after the thermal goes normal.
 Brown-out Set at 55Vac~70Vac
 Environment
 Working TEMP. 0~70°C (> 40°C de-rating)
 Storage TEMP. -20~+80°C
 Working Humidity 20~80% RH non-condensing
 Storage Humidity 10~90% RH non-condensing

INPUT SPECIFICATIONS

Power factor: Provisions for adding harmonic reduction per EN 61000-3-2 must be present.
 Efficiency: Meet DOE(Level VI)
 Power turn-on time At 100Vac / full load, output voltage shall remain regulation \leq 3Sec
 Hold-up time: At 100Vac or 240Vac / full load, output voltage shall remain regulation \geq 5ms
 Inrush current: 100Vac, 240Vac / full load , Shall be less than the rating of adapter critical component (including rectifiers, fuse surge and current limiting device)
 Operating altitude: 5000 meters above sea level
 Withstand voltage: Between AC input and secondary applied DC 4242V, test time 1 minute, cut off current shall be less than 10mA
 MTBF: 100Vac, 240Vac / full load , 300,000 hours at 25°C, standard SR332
 EMC Performance:
 EN55032 Class B conducted, class B radiated
 FCC Class B conducted, class B radiated
 VCCI Class B conducted, class B radiated
 EN61000-3-2 Meet class D
 EN61000-3-3 Meet regulation
 EN61000-4-2 Air discharge: \pm 15 KV, contact discharge: \pm 8KV, meet criterion A
 EN61000-4-3 80 ~1000 MHz, 3V/m, 80% AM(1kHz), meet criterion A
 EN61000-4-4 Impulse: \pm 1kV applied to L,N, meet criterion A
 EN61000-4-5 \pm 1kV applied differential mode, \pm 2kV applied common mode, meet criterion A
 EN61000-4-6 0.15 ~ 80 MHz, 3Vrms, 80% AM(1kHz), meet criterion A
 EN61000-4-8 50 Hz or 60Hz, 1A/m, meet criterion A
 EN61000-4-11 Voltage Dips :
 >95% reduction for 0.5 period, meet criterion B
 30% reduction for 25 period, meet criterion B
 Voltage Interruptions :
 >95% reduction for 250 period, meet criterion B
 Power de-rating: 100Vac or 240Vac, 0°C to 40°C, 100% load.

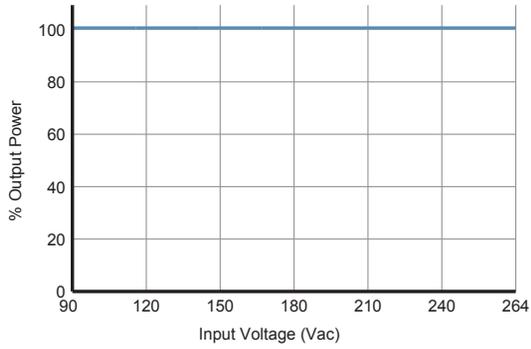


TECHNICAL DATASHEET

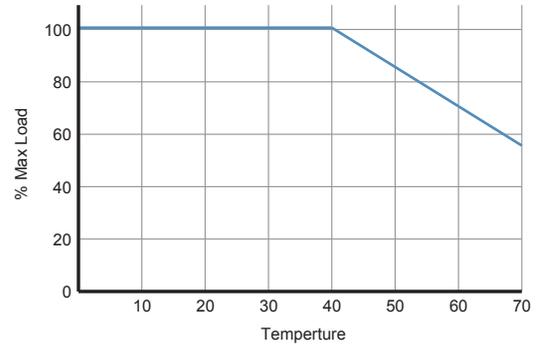
USB PD Type-C Adapter

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INPUT VOLTAGE DERATING CURVE



OUTPUT POWER DERATING CURVE



OUTPUT VOLTAGE/CURRENT RATING CHART

Model	Output Voltage	Output Current	AC Inlet	Efficiency		Over Voltage Protection
				DOE(Level VI)	CoC V5 (Tier 2)	
FSP045-A1UP3	5/9/12/15/20V	3/3/3/3/2.25A	Foldable USA plug	≥88%	≥89%	24Volts

MECHANICAL SPECIFICATIONS

