

FSP045-D3MR3

FEATURES

- Certified CB 62368-1 & CB 60950-1
- Meet Energy Efficiency DOE Level VI
- Meet (EU)2019/1782
- High Reliability
- Compact Design
- Short Circuit Protection
- Over Temperature Protection
- Over Voltage Power Protection



SAFETY STANDARD APPROVAL



DESCRIPTION

This is 45W USB C Charger for all your usb-c and usb-powered devices.

This power adapter is compact and lightweight, be able to pack it in a bag and take it to work or travel, it is very convenient.

INPUT SPECIFICATIONS

Input voltage:	90-264Vac
Input frequency:	47-63Hz
Input current:	100Vac, 240Vac / full load ≤ 1.2A
No load power consumption:	115Vac , 230Vac ≤ 0.075W when the USB type-C Connector out (no output)
Touch current:	264Vac / 50Hz ≤ 0.25mA

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 shuts down which means no output, when over voltage happens at output terminal caused by internal fault. The power supply shall shut down and enter auto-recovery mode.

Short circuit 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 shall shut down.

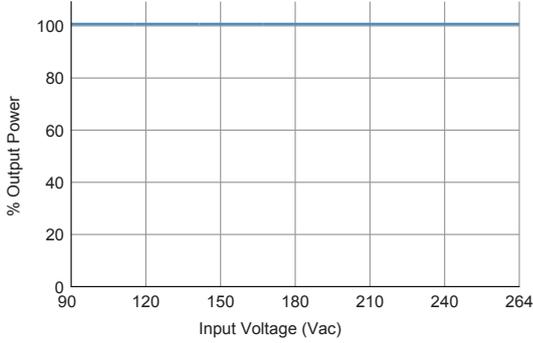
Environment

Working temperature:	0~40°C (> 40°C de-rating)
Storage temperature:	-20~+60°C
Working humidity:	10~90% RH non-condensing
Storage humidity:	10~90% RH non-condensing

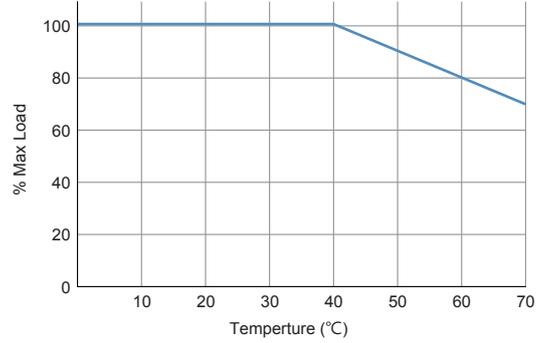
GENERAL SPECIFICATIONS

Power factor:	Provisions for adding harmonic reduction per EN 61000-3-2 must be present.
Efficiency:	Meet DOE(Level VI) & (EU)2019/1782
Power turn-on time:	At 115Vac / full load, output voltage shall remain regulation ≤ 3Sec
Hold-up time:	At 110Vac or 240Vac / full load, output voltage shall remain regulation ≥ 8ms
Inrush current:	115Vac, 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:	115Vac, 240Vac / full load , 100,000 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: ± 15 KV, contact discharge: ± 8 KV, meet criterion A
EN61000-4-3:	80 ~1000 MHz, 3V/m, 80% AM(1kHz), meet criterion A
EN61000-4-4:	Impulse: ± 1kV applied to L,N, meet criterion A
EN61000-4-5:	± 1kV applied differential mode, ± 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.

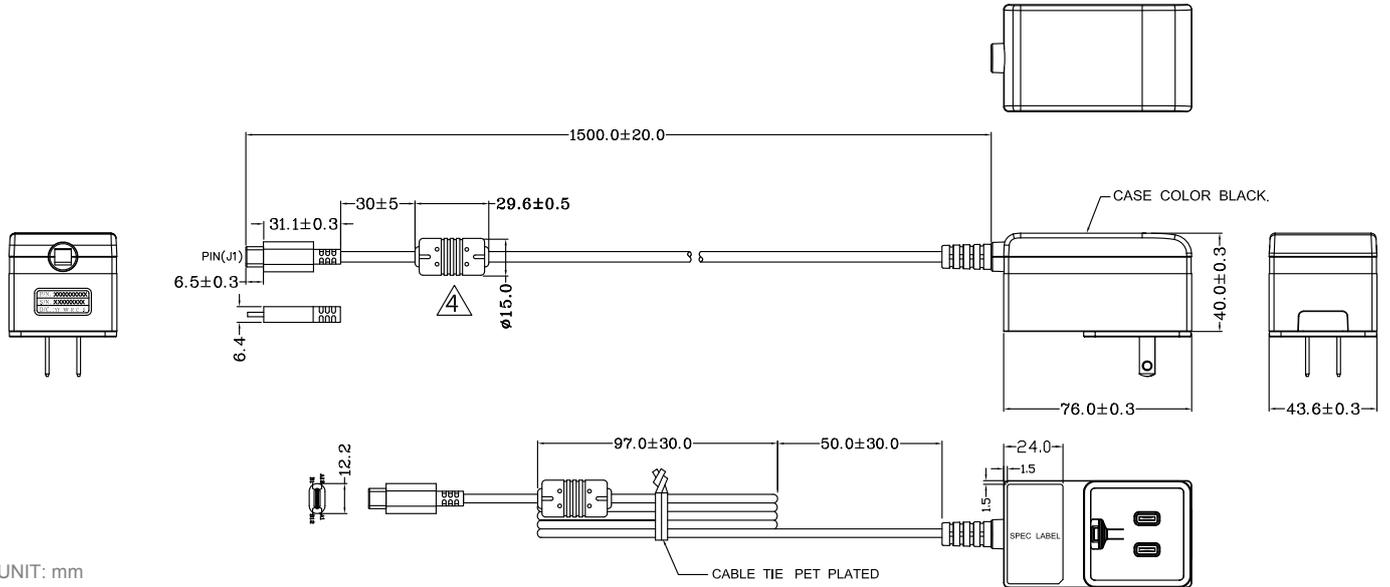
INPUT VOLTAGE DERATING CURVE



OUTPUT POWER DERATING CURVE



MECHANICAL SPECIFICATIONS



CONNECTOR SPECIFICATIONS

