

FSP045-D3MR3C

FEATURES

- Meet USB PD R3.0 with PPS mode
- Certified IEC 62368-1
- Meet LPS
- Meet Energy Efficiency DOE Level VI
- Meet Code of Conduct Version 5 Tier 2
- Over Current Protection
- Over Voltage Protection
- Short Circuit Protection
- Over Temperature Protection

SAFETY STANDARD APPROVAL



DESCRIPTION

This product is an 45 watts AC to DC PD adapter intended for use in systems with Type-C input, such as laptop application. This adapter operates at 90 to 264 VAC input voltage with PD 3.0 standard outputs from 5V to 20V. The unit meets CIS-PR32 EN55032 CLASS B, and FCC PART 15B Class B emission limits, and is designed for ITE application.

INPUT SPECIFICATIONS

Input voltage:	90-264 VAC
Input frequency:	47-63 Hz
Input current:	100Vac, 240Vac / full load ≤ 1.2A
No load power consumption:	115Vac, 230Vac ≤ 0.1W
Touch current:	264Vac / 50Hz ≤ 0.25mA rms

OUTPUT SPECIFICATIONS

Output voltage/current:	See rating chart
Max. output power:	45W
Protection:	
Over voltage:	The adapter will shut down caused by internal fault. That will be return to normal state by AC reset. See chart.
Over current:	The power will shutdown without damage.
Over Temperature:	The power supply will enter into shut down while the abnormal thermal rise occurs.

ENVIRONMENTAL SPECIFICATIONS

Operating temperature:	0~70°C (> 40°C derating)
Storage temperature:	-20~+60°C
Operating humidity:	0~90% RH non-condensing
Storage humidity:	0~90% RH non-condensing

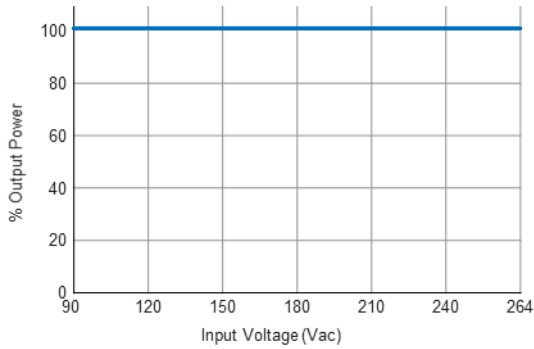
GENERAL SPECIFICATIONS

Efficiency:	See the chart at next page
Hold-up time	≥ 6ms at 100 or 240Vac with max. load
Operating altitude:	5,000 meters
Inrush current:	No damage, I ² T Shall be less than 29% of the rating of adapter critical component
MTBF:	≥ 30K Hrs with 115Vac / Max. load at 25°C

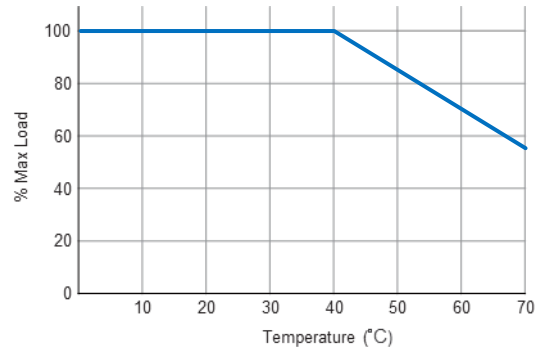
EMC Performance

EN55032:	Class B conducted, class B radiated
FCC:	Class B conducted, class B radiated
VCCI:	Class B conducted, class B radiated
EN61000-3-3:	Line flicker
EN61000-4-2:	ESD, ±15 KV air & ±8 KV contact
EN61000-4-3:	Radiated immunity, 3 V/m
EN61000-4-4:	Fast transient / burst, ±1 KV
EN61000-4-5:	Surge, ±1 KV diff., ±4 KV (Optional).
EN61000-4-6:	Conducted immunity, 3 Vrms
EN61000-4-8:	Magnetic field immunity, 1A/m
EN61000-4-11:	Voltage dip immunity, 30% reduction for 500 ms, >95% reduction for 10 ms, and 100% reduction for 5000 ms

INPUT VOLTAGE DERATING CURVE



OUTPUT POWER DERATING CURVE



OUTPUT VOLTAGE / CURRENT RATING CHART

Model	Output Voltage	Output Current	AC Plug	Efficiency: DoE L6 & CoC V5 T2		Over Voltage Protection
				115V	230V	
FSP045-D3MR3C	5/9/12/15/20V	3/3/3/3/2.25A	US	SPR Mode		5V: 8.0V Max. 9V: 14.0V Max. 12V: 18.0V Max. 15V: 22.0V Max. 20V: 27.0V Max.
				5V: 81.39% 9V: 86.62% 12V: 87.40% 15V: 87.73% 20V: 87.54%	5V: 81.84% 9V: 87.30% 12V: 88.30% 15V: 88.85% 20V: 88.85%	

MECHANICAL & AC CONNECTOR SPECIFICATIONS

Unit: mm

AC Plugs:

