

TECHNICAL DATASHEET

240W PD Adapter

FSP240-A2AR3



FSP240-A2AR3

FEATURES

- Meet USB PD R3.1
- Certified IEC 62368-1
- Meet Energy Efficiency DOE Level VI
- Meet Code of Conduct Version 5 Tier 2
- High Reliability
- **Over Current Protection**
- **Over Temperature Protection**
- Over Voltage Protection
- With PFC Circuit

SAFETY STANDARD APPROVAL









DESCRIPTION

This product is an 240 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 3.1 standard outputs from 5V to 36V. The unit meets CIS-PR32 EN55032 CLASS B, and FCC PART 15B Class B emission limits, and is designed for ITE application.

INPUT SPECIFICATIONS

90-264 VAC Input voltage: Input frequency: 47-63 Hz

100Vac, 240Vac / full load ≤ 2.4A Input current:

No load power

115Vac. 230Vac ≤ 0.1W

consumption:

264Vac / 50Hz ≤ 0.25mA Touch current:

OUTPUT SPECIFICATIONS

Output voltage/current: See rating chart

Max. output power: 240W

Protection:

Over voltage: The adapter will shut down caused by in-

ternal fault. That will be return to normal

state by AC reset. See chart.

Over current: The power will shutdown without damage.

The power supply will enter into shut down Over Temperature:

while the abnormal thermal rise occurs.

ENVIRONMENTAL SPECITICATIONS

0~70°C (> 40°C derating) Operating temperature:

Storage temperature: -20~+80°C

Operating humidity: 10~85% RH non-condensing Storage humidity: 10~95% RH non-condensing

GENERAL SPECIFICATIONS

Power factor: $PF \ge 0.9 \text{ at } 100Vac/240Vac input (48V/5.0A)$

Efficiency: See the chart at next page

≥ 5ms at 100 or 240Vac with max. load Hold-up time

No damage, I2T Shall be less than 29% of Inrush current:

the rating of adapter critical component

Operating altitude: 5.000 meters

MTBF: ≥ 100,000Hrs with 115Vac / Max. load at 40°

FMC 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: Harmonic distortion, Class A & D

EN61000-3-3: Line flicker

EN61000-4-2: ESD, ±15 KV air & ±8 KV contact

EN61000-4-3: Radiated immunity, 3 V/m FN61000-4-4: Fast transient / burst. ±1 KV

EN61000-4-5: Surge, ±1 KV diff., ±2 KV com.

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

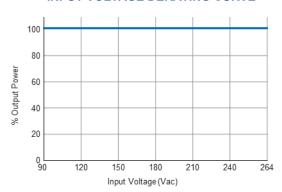


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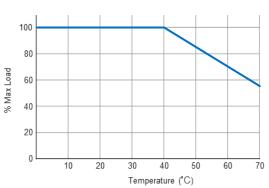
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INPUT VOLTAGE DERATING CURVE



OUTPUT POWER DERATING CURVE



OUTPUT VOLTAGE / CURRENT RATING CHART

Model	Output Voltage	Output Current	AC Inlet	Efficiency: DoE L6 & CoC V5 T2		Over Voltage
				115V	230V	Protection
FSP240-A2AR3	5/9/15/20/28/36/48V	3/3/3/5/5/5/5A	C14	SPR Mode	SPR Mode	
				5V: 81.39%	5V: 81.39%	9V: 12.6V Max.
				9V: 86.62%	9V: 86.62%	
				15V: 87.73%	15V: 87.73%	
				20V: 88.00%	20V: 88.00%	20V: 26.0V Max.
				EPR Mode:	EPR Mode:	28V: 33.6V Max.
						36V: 43.2V Max.
				28V: 88.00%	28V: 88.00%	48V: 55.0V Max.
				36V: 88.00%	36V: 88.00%	
				48V: 88.00%	48V: 88.00%	

MECHANICAL & AC CONNECTOR SPECIFICTIONS

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