

FSP090(100)-A1BR3 Series



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FEATURES

- · USB Power Delivery Type-C Adapter
- Certified IEC 62368-1 & CB 60950-1
- Meet Energy Efficiency DOE Level VI
- · Meet Code of Conduct Version 5 Tier 2
- · High Reliability

SAFETY STANDARD APPROVAL









DESCRIPTION

This product is an 100 watts USB Power Delivery adapter use in Mobile Phones, Tablets, Automotive convenience ports, TV, Mass Storage, Expansion Ports, Laptops, Monitors, Payment terminal, Set-top boxes, Workstations.

INPUT SPECIFICATIONS

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

Input current: 100Vac, 240Vac / full load \leq 1.4A No load power consumption 115Vac, 230Vac ≤ 0.1W when the USB

type-C plug out

Touch current: 264Vac / 50Hz ≤ 0.2mA

INPUT SPECIFICATIONS

Provisions for adding harmonic reduction per EN Power factor:

61000-3-2 must be present. Efficiency: See rating chart

Power turn-on time At 100Vac / full load, output voltage shall remain

regulation ≤ 5Sec

Hold-up time: At 100Vac or 240Vac / full load, output voltage shall

remain regulation ≥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

Between AC input and secondary applied DC 4242V,test Withstand voltage: time 1 minute, cut off current shall be less than 10mA 100Vac, 240Vac / full load, 300,000 hours at 25°C, MTBF:

standard SR332

EMC Performance: Class B conducted, class B radiated EN55032 Class B conducted, class B radiated FCC Class B conducted, class B radiated

VCCI Meet class D EN61000-3-2 Meet regulation

EN61000-3-3 Air discharge: ±15 KV,contact discharge: ±8KV, meet

EN61000-4-2 criterion A

80 ~1000 MHz,3V/m,80% AM(1kHz), meet criterion A EN61000-4-3 Impulse: ±1kV applied to L,N,meet criterion A

±1kV applied differential mode, ±2kV applied common FN61000-4-4

EN61000-4-5 mode, meet criterion A 0.15 ~ 80 MHz,3Vrms,80% AM(1kHz),meet criterion A FN61000-4-6

FN61000-4-8 50 Hz or 60Hz,1A/m,meet criterion A

EN61000-4-11 Voltage Dips

> >95% reduction for 0.5 period, meet criterion A 30% reduction for 25 period, meet criterion A Voltage Interruptions

> >95% reduction for 250 period, meet criterion B

Power de-rating: 100Vac or 240Vac,0°C to 40°C,100% load.

OUTPUT SPECIFICATIONS

Over temperature:

Output voltage/current: See rating chart See rating chart Total output power: 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 latch

mode.

Short circuit & When an internal fault occurs, or an Over current: 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. The power supply will enter into shut

down while the abnormal thermal rise occurs. the power supply shall shut

down and enter latch Brown-out Set at 55Vac~70Vac

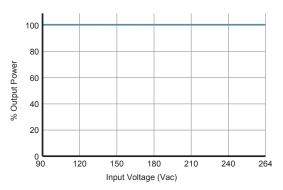
Environment Working TEMP. 0~70°C (> 40°C de-rating) Storage TEMP -20~+80°C

20~80% RH non-condensing Working Humidity Storage Humidity 10~90% RH non-condensing

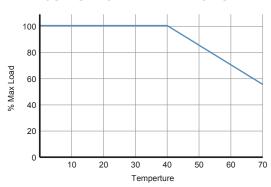


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INPUT VOLTAGE DERATING CURVE



OUTPUT POWER DERATING CURVE



OUTPUT VOLTAGE/CURRENT RATING CHART

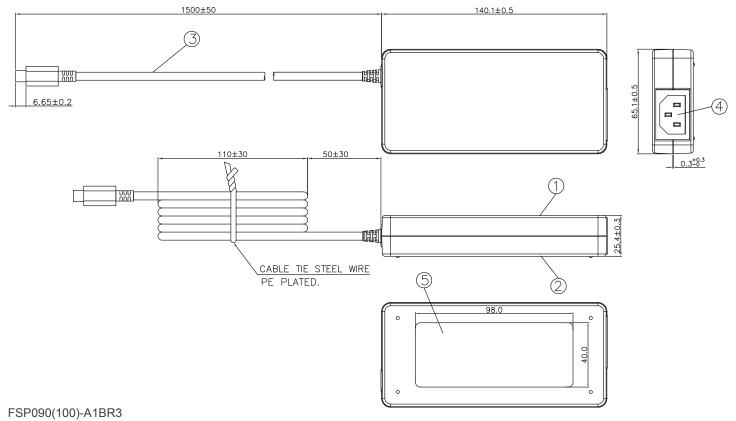
Model	Output Voltage	Output Current	AC Inlet	Efficiency		Over Voltage
				DOE(Level VI)	CoC V5 (Tier 2)	Protection
FSP090-A1AR3	5/9/12/15/20V	3/3/3/3/4.5A	C14	- ≧88%	≧89%	24Volts
FSP090-A1BR3	5/9/12/15/20V	3/3/3/4.5A	C6			
FSP100-A1AR3	5/9/12/15/20V	3/3/3/3/5A	C14			
FSP100-A1BR3	5/9/12/15/20V	3/3/3/3/5A	C6			

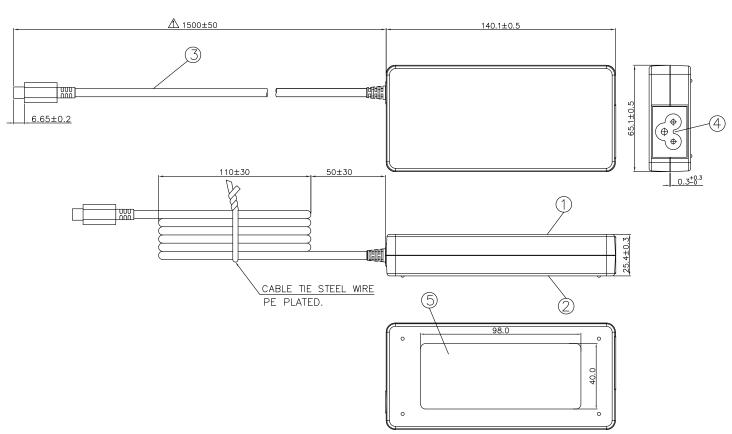


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MECHANICAL SPECIFICATIONS

FSP090(100)-A1AR3







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CONNECTOR SPECIFICATIONS

