





# FSP090(100)-A1BR3

#### **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

**INPUT SPECIFICATIONS** 

### SAFETY STANDARD APPROVAL



Provisions for adding harmonic reduction per EN

At 100Vac or 240Vac / full load, output voltage shall

100Vac, 240Vac / full load , Shall be less than the rating of adapter critical component (including rectifiers, fuse

61000-3-2 must be present.

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

remain regulation  $\geq$  5ms

See rating chart

regulation  $\leq$  5Sec

#### DESCRIPTION

Input voltage:

Input current:

Touch current:

Input frequency:

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.

Power factor:

Hold-up time:

Inrush current:

Efficiency:

#### **INPUT SPECIFICATIONS**

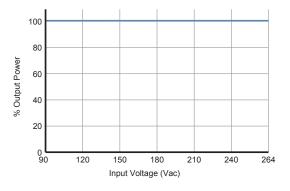
90-264 VAC 47-63 Hz 100Vac, 240Vac / full load  $\leq$  1.4A 115Vac, 230Vac  $\leq$  0.1W when the USB No load power consumption type-C plug out 264Vac / 50Hz ≦ 0.2mA

#### OUTPUT SPECIFICATIONS

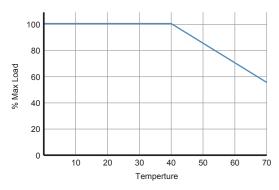
OUTPUT SPECIFICATIO Output voltage/current: Total output power:	DNS See rating chart See rating chart	Operating altitude: Withstand voltage:	Between AC input and secondary applied DC 4242V,test
Protection: Over voltage:	The adapter will enter into shut down that means no output while over voltage happened at output terminal that caused	MTBF:	time 1 minute, cut off current shall be less than 10mA 100Vac, 240Vac / full load, 300,000 hours at 25°C, standard SR332
	by internal fault, the output trip voltage shall not exceed 24 volts the power supply shall shut down and enter latch mode.	EMC Performance: EN55032 FCC VCCI EN61000-3-2	Class B conducted, class B radiated Class B conducted, class B radiated Class B conducted, class B radiated Meet class D Meet regulation
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. The power supply will enter into shut down while the abnormal thermal rise occurs. the power supply shall shut	EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-11	Air discharge: ±15 KV,contact discharge: ±8KV, meet criterion A 80 ~1000 MHz,3V/m,80% AM(1kHz), meet criterion A Impulse: ±1kV applied to L,N,meet criterion A
Over temperature:			±1kV applied differential mode, ±2kV applied common mode,meet criterion A 0.15 ~ 80 MHz,3Vrms,80% AM(1kHz),meet criterion A 50 Hz or 60Hz,1A/m,meet criterion A Voltage Dips :
Brown-out	down and enter latch . Set at 55Vac~70Vac		>95% reduction for 0.5 period, meet criterion A 30% reduction for 25 period, meet criterion A
Environment Working TEMP. Storage TEMP. Working Humidity Storage Humidity	0~70°C (> 40°C de-rating ) -20~+80°C 20~80% RH non-condensing 10∼90% RH non-condensing	Power de-rating:	Voltage Interruptions : >95% reduction for 250 period, meet criterion B 100Vac or 240Vac,0°C to 40°C,100% load.



## INPUT VOLTAGE DERATING CURVE



**OUTPUT POWER DERATING CURVE** 



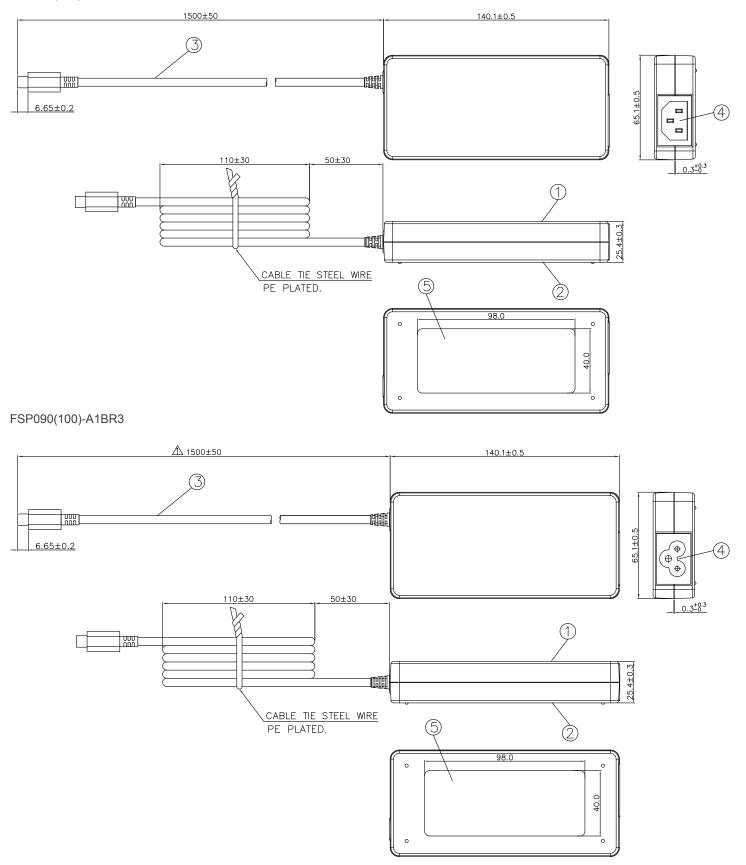
#### **OUTPUT VOLTAGE/CURRENT RATING CHART**

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	3/3/3/3/4.5A	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			



#### **MECHANICAL SPECIFICATIONS**

FSP090(100)-A1AR3



TOTAL

POWER SOLUTIONS

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#### **CONNECTOR SPECIFICATIONS**

