

TECHNICAL DATASHEET **180W PD Adapter** FSP180-A1BR3



FSP180-A1BR3

FEATURES

- Approved with IEC 62368-1 Ed. 3.0 & global safety certifications
- Approved with EN55032 and CISPR 32/FCC part 15 Class B
- Operating altitude 5000m
- Meets CoC Tier2 & DOE Level VI
- Built-in OCP/OTP/OVP
- Class I (IEC320-C6)

SAFETY STANDARD APPROVAL

GENERAL SPECIFICATIONS



DESCRIPTION

FSP180-A1BR3 is a 180W AC to DC USB type-C PD desktop type power supply with a IEC320-C6 AC inlet (Class I power unit). The adapter operates at 90 to 265Vac input voltage with the output rating 5V/9V/15V/20V/28V/36V.

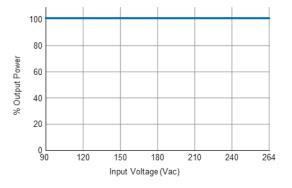
INPUT SPECIFICATIONS

Input voltage:	90-264 VAC	Power factor:	PF ≥ 0.9 at 100Vac/240Vac input (36V/5.0A)		
Input frequency:	47-63 Hz	Efficiency:	See the chart at next page		
Input current:	100Vac, 240Vac / full load \leq 2.4A	Hold-up time	≥ 5ms at 100 or 240Vac with max. load		
No load power consumption:	115Vac, 230Vac ≤ 0.1W	Inrush current: No damage, I ² T Shall be less than 29% of the rating of adapter critical component			
Touch current:	264Vac / 50Hz ≤ 0.25mA	Operating altitude:	5,000 meters		
OUTPUT SPECIFICATIONS		MTBF:	≥ 100,000Hrs with 115Vac / Max. load at 40°		
Output voltage/current:	See rating chart	EMC Performance	Performance		
Max. output power:	180W	EN55032:	Class B conducted, class B radiated		
Protection:		FCC:	Class B conducted, class B radiated		
Over voltage:	The adapter will shut down caused by in- ternal fault. That will be return to normal state by AC reset. See chart.	VCCI:	Class B conducted, class B radiated		
		EN61000-3-2:	Harmonic distortion, Class A & D		
		EN61000-3-3:	Line flicker		
Over current:	The power will shutdown without damage.	EN61000-4-2:	ESD, ±15 KV air & ±8 KV contact		
Over Temperature:	The power supply will enter into shut down while the abnormal thermal rise occurs.	EN61000-4-3:	Radiated immunity, 3 V/m		
		EN61000-4-4:	Fast transient / burst, ±1 KV		
ENVIRONMENTAL SPECITICATIONS		EN61000-4-5:	Surge, ±1 KV diff., ±2 KV com.		
Operating temperature: 0~70°C (> 40°C derating)		EN61000-4-6:	Conducted immunity, 3 Vrms		
Storage temperature:	-20~+80°C	EN61000-4-8:	Magnetic field immunity, 1A/m		
Operating humidity:	10~85% RH non-condensing	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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Storage humidity:	10~95% RH non-condensing				

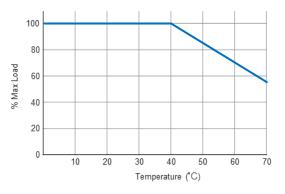


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INPUT VOLTAGE DERATING CURVE



OUTPUT POWER DERATING CURVE



OUTPUT VOLTAGE / CURRENT RATING CHART

Model	Output Voltage	Output Current	AC Inlet	Efficiency: DoE L6 & CoC V5 T2		Over Voltage
				115V	230V	Protection
FSP180-A1BR3	5/9/15/20/28/36V	3/3/3/5/5/5A	C6	SPR Mode	SPR Mode	 9V: 12.6V Max. 9V: 12.6V Max. 15V: 21.0V Max. 20V: 26.0V Max. 28V: 33.6V Max. 36V: 43.2V Max.
				5V: 81.39%	86.62% 9V: 86.62%	
				9V: 86.62% 15V: 87.73%		
				20V: 88.00%		
				EPR Mode:	201.00.0070	
				28V: 88.00%		
				36V: 88.00%	36V: 88.00%	

MECHANICAL & AC CONNECTOR SPECIFICTIONS

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