



FSP090-DBAC3 / BC3

FEATURES

- Certified IEC 62368-1
- Meet Energy Efficiency DOE Level VI
- Meet ErP Lot 7
- High Reliability
- Over Current Protection
- Over Temperature Protection
- Over Voltage Protection
- With PFC Circuit

SAFETY STANDARD APPROVAL



DESCRIPTION

This product is an 90 watts AC to DC PD adapter intended for use in systems such as mini-PC or POS with 19V input. This adapter operates at 90 to 264Vac input. The unit meets CISPR32 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 ≤ 1.5A, 240Vac ≤ 1.8A at full load
No load power consumption:	115Vac, 230Vac ≤ 0.21W
Leakage current:	264Vac / 50Hz ≤ 0.25mA

OUTPUT SPECIFICATIONS

Output voltage/current:	See rating chart
Max. output power:	90W
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.

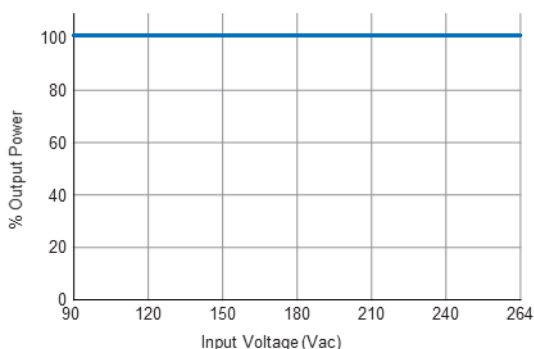
ENVIRONMENTAL SPECIFICATIONS

Operating temperature:	0~70°C (> 40°C derating)
Storage temperature:	-20~+80°C
Operating humidity:	20~80% RH non-condensing
Storage humidity:	10~90% RH non-condensing

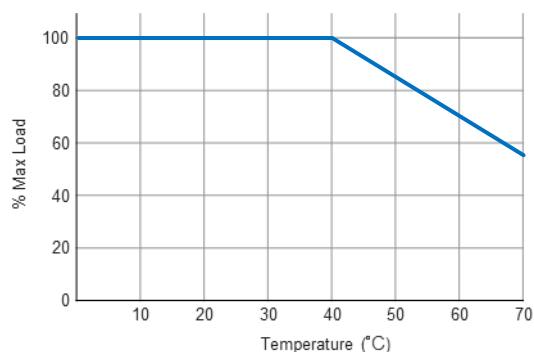
GENERAL SPECIFICATIONS

Power factor:	PF ≥ 0.9 at 100Vac/240Vac input
Efficiency:	See the chart at next page
Hold-up time	≥ 10ms at 100 or 240Vac with max. load
Inrush current:	No damage, I ² T Shall be less than 29% of the rating of adapter critical component
Operating altitude:	5,000 meters
MTBF:	≥ 30K hrs with 230Vac / 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
EN61000-3-2:	Harmonic distortion, Class D
EN61000-3-3:	Line flicker
EN61000-4-2:	ESD, ±8 KV air & ±4 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., ±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

INPUT VOLTAGE DERATING CURVE



OUTPUT POWER DERATING CURVE



OUTPUT VOLTAGE / CURRENT RATING CHART

Model	Output Voltage	Output Current	AC Inlet	Efficiency		Over Voltage Protection
				DOE (Level VII)	ErP Lot 7	
FSP090-DBAC3	19V	4.74A	C14	≥ 88%	≥ 88%	28 Volts
FSP090-DBBC3	19V	4.74A	C6	≥ 88%	≥ 88%	28 Volts

MECHANICAL & AC CONNECTOR SPECIFICATIONS

FSP090-DBAC3 / FSP090-DBBC3

Unit: mm

