

FSP036-DHAC3

FEATURES

- 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 36 watts AC to DC 12V adapter for using in systems such as Embedded, digital signage or self checking application. This adapter 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, 240Vac / full load $\leq 1.7A$
No load power consumption:	115Vac, 230Vac $\leq 0.075W$
Touch current:	264Vac / 50Hz $\leq 0.35mA$

OUTPUT SPECIFICATIONS

Output voltage/current:	See rating chart
Max. output power:	36W
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:	Showed at next page.
Over Temperature:	The power supply will enter into latch-off while the abnormal thermal rise occurs.

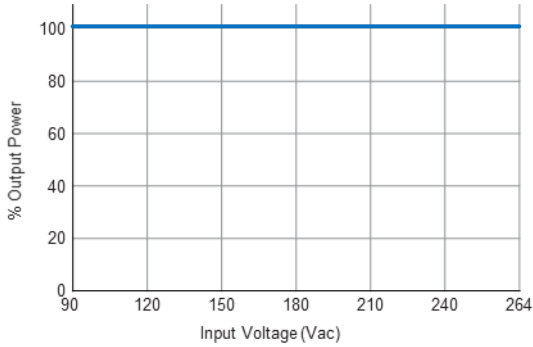
ENVIRONMENTAL SPECIFICATIONS

Operating temperature:	0~70°C (> 40°C derating)
Storage temperature:	-20~+80°C
Operating humidity:	0~90% RH non-condensing
Storage humidity:	0~95% RH non-condensing

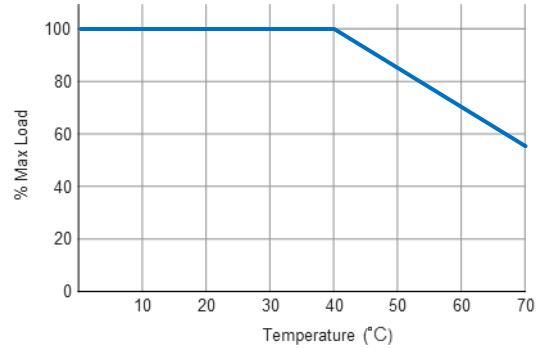
GENERAL SPECIFICATIONS

Power factor:	PF ≥ 0.9 at 100Vac / 240Vac input
Efficiency:	See the chart at next page
Hold-up time	$\geq 6ms$ 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:	$\geq 300K$ Hrs with 115Vac / 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 A & 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. or $\pm 6KV$ (Optional)
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 VI)	CoC V5 (Tier 2)	
FSP036-DHAC3	12V	3.0A	C14	≥ 88%	≥ 89%	18 Volts

MECHANICAL & AC CONNECTOR SPECIFICATIONS

FSP036-DHAC3
Unit: mm

