

Charger

Changeable Wall Mount Series



Single Output 36W Data Sheet

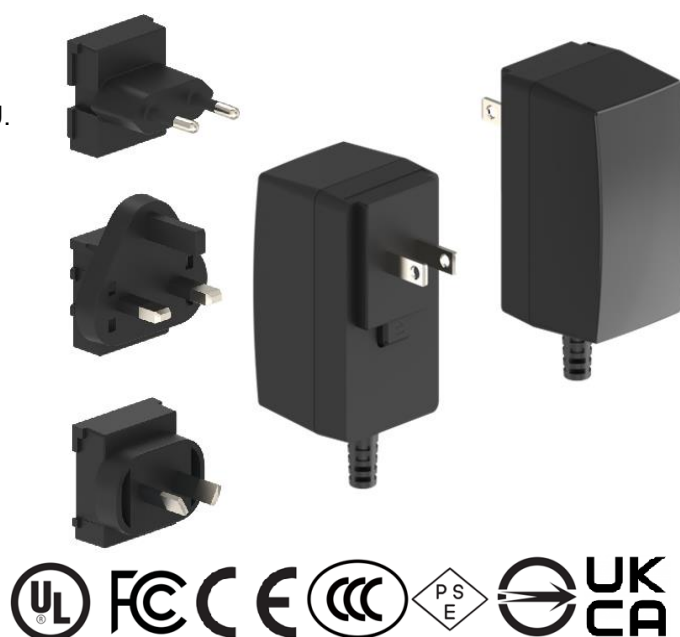
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Description

This specification defines the performance characteristics of a 12V/3A, 36-Watt power supply. And it applicable for worldwide safety and electromagnetic compatibility requirements for the power supply.

Features

- * Support worldwide AC input voltage
- * Interchangeable AC plug can support EU/US/UK/AU.
- * Meet DOE VI efficiency requirement
- * Full Protections: OVP / OCP / OTP / SCP / OPP
- * No load power saving < 0.1W
- * Compliance with EN/IEC62368-1, EN/IEC60950
- * Operating altitude: 0~5000 meters



Electrical Specification

Model Name	PA-1360-32A1
Output	
Rated power	36W
Rated voltage	12V
Rated current	3A
Ripple & noise (note #1)	< 240mV
Line & load regulation	< $\pm 5\%$
Hold-up time	> 5ms
AC turn-on delay	< 3sec.
Input Specification	
Rated voltage range	100V~240VAC / 50~60Hz
Operated voltage range	90V~264VAC / 47~63Hz

Current range	< 0.9A
Inrush current	Shall be less than the rating of adapter critical component (including rectifiers, fuse surge and current limiting device)
Leakage current	< 100uA
Average Efficiency	> 87.403% for 45W, compliance with DoE VI
Protection Function	
Over voltage	< 16V, auto-recovery.
Over current	< 5A, auto-recovery.
Short circuit at O/P	No damage, auto-recovery.
Over temperature	No damage, auto-recovery.
Others	
MTBF	> 300K hours @ 25°C Full load
Environment	
Operating Temperature	0~40°C
Storage Temperature	-20~80°C
Operating Humidity	10~90% RH
Storage Humidity	5~95% RH
Altitude	0~5000 meters
Mechanical	
Dimension	71.5 * 43.5 * 44.5mm
Temperature rise of case	$\Delta T < 52^{\circ}\text{C}$ @25°C ambient
Weight	170g
Safety	
Standard	CB/IEC62368-1,UL62368-1,EN62368-1, CCC GB4943.1,PSE J62368-1,BSMI CNS15598-1
Withstand voltage	4242VDC
Isolation resistance	>100Mohm @ 500VDC
EMC	
EN55032	Conducted EMI: class B / Radiated EMI: class B
FCC	Conducted EMI: class B / Radiated EMI: class B
EN61000-3-2	Harmonic distortion: Class A (Pin < 75W)
EN61000-4-2	ESD: $\pm 8\text{KV}$ contact discharge / $\pm 15\text{KV}$ air discharge
EN61000-4-3	Radiated RF immunity: 3V/m
EN61000-4-4	EFT: $\pm 1\text{KV}$ (AC port)
EN61000-4-5	Surge: $\pm 1\text{KV}$ DM / $\pm 2\text{KV}$ CM
EN61000-4-6	Conducted RF immunity: 3V/m
EN61000-4-8	Magnetic field immunity: 1A/m

EN61000-4-11	<p>Voltage dip immunity:</p> <p>100% dips : 10ms, Criteria B</p> <p>100% dips : 20ms, Criteria B</p> <p>60% dips : 200ms, Criteria C</p> <p>30% dips : 500ms, Criteria C</p> <p>20% dips : 5000ms, Criteria C</p>
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Notes

#1: Ripple noise is measured with output added 0.1uF MLCC and 47uF low ESR electrolytic capacitor.

Typical Performance Characteristics

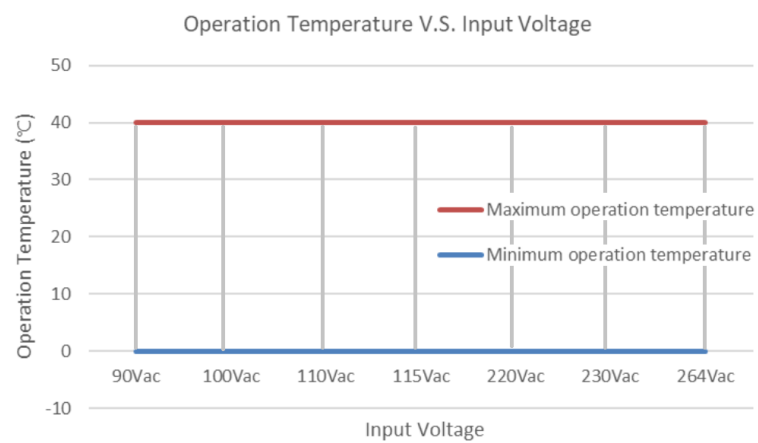


Figure.1

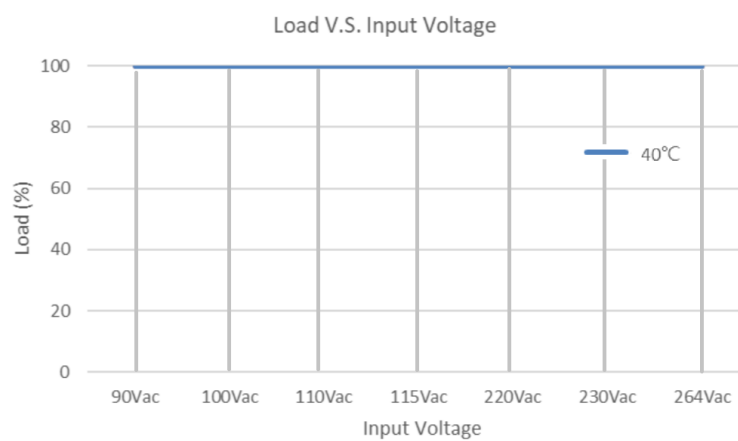


Figure.2

Outline Drawing

