

TAA240-27C Power Supply (240W)

Features:

- Active Power Factor Correction (PF>0.9)
- 27kV Air ESD
- High Efficiency (Up to 90%)
- Overload Protection
- Short Circuit Protection
- Compact Design: 6.0" x 4.18" x 1.54"
- 100% Burn-In/Hi-Pot Testing
- RoHS Compliant



*Safety approvals may be model dependent. Consult TT Electronics for specifics or for additional safety approvals required.

Description:

The TAA240-27C AC/DC switching power supply is rated for 240 watts of continuous output power. It is offered in a dual output configuration of 12V and 24V. The model meets FCC, EN55032, and CISPR32 class B emission limits, and comply with UL, IEC, DOE level VI, CE, and more.

Model	Output Voltage (V1)	Max Load Convection (V1)	Output Voltage (V2)	Max Load Convection (V2)	Ripple & Noise	Load Regulation	Line Regulation
TAA240-27C	12V	10A	24V	5A	240mVp-p	5%	2%

Notes:

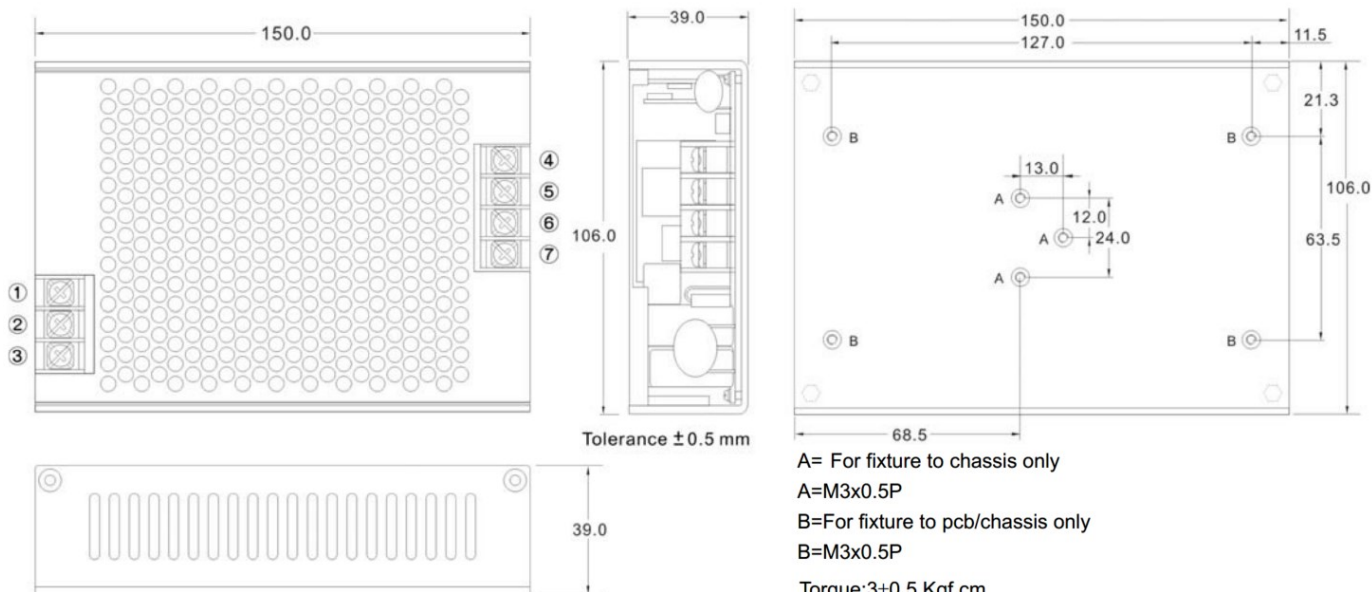
1. Ripple and Noise Measured at 20MHz bandwidth with a 47uF electrolytic capacitor and 0.1uF ceramic capacitor in parallel at the output connector.
2. Minimum load is 25%

Specifications	
Input	
Input Voltage	90-264VAC
Input Frequency	47-63 Hz
Input Current	3.0A max at 115 VAC 1.5A max at 230 VAC
Inrush Current	<45A peak at 115VAC <90A peak at 230VAC, cold start, 25°C
Output	
Total Output Power	240W
Output Voltage	12V/24V
Hold Up Time	≥7mS
Average Active efficiency	90% at 230VAC
Minimum Load	25%
No Load Power Consumption	<1W at 230VAC/50Hz
Turn on Delay	<1 second
Peak Current	150% for 3 seconds
Protection Features	
Overvoltage Protection	Zener diode clamp
Overcurrent Protection	110%-150% of maximum output current. Auto recovery
Short Circuit	Hiccup mode. Auto recovery
Environmental	
Operating Temperature	-10°C to 70°C (with derating)
Storage Temperature	-25°C to +85°C
Operating Humidity	95% RH
Altitude	<5000m operational and storage
General Specifications	
Dimensions	6.0"(150mm)L x 4.18"(106mm)W x 1.54"(39mm)H
Weight	1.23lbs.
MTBF	>120,000 hours per MIL-HDBK-217F at full load and 25°C ambient

Specifications Continued	
Safety	
Approvals	EN 62368-1 IEC 62368-1 UL/cUL 62368-1
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EMC	
EMC	FCC Class B Radiated & Conducted CISPR32 Class B Radiated & Conducted EN55032 Class B Radiated & Conducted EN55035
Harmonic Currents	IEC 61000-3-2: Class A, D
Voltage Flicker	IEC 61000-3-3
Electrostatic Discharge	IEC 61000-4-2: 27kV Air, 4kV contact
Radiated Immunity	IEC 61000-4-3: 3V/m
EFT	IEC 61000-4-4: +/-1kV
Surge Immunity	IEC 61000-4-5: 2kV diff, 4kV com
Conducted Immunity	IEC 61000-4-6: 3Vrms
Power Frequency Magnetic Field Immunity	IEC 61000-4-8: 1A/m
Dips/Interruptions	IEC 61000-4-11: 30% reduction for 500ms>95% reduction for 10ms

Diagrams

Mechanical Outline



A= For fixture to chassis only
 A=M3x0.5P
 B=For fixture to pcb/chassis only
 B=M3x0.5P
 Torque:3±0.5 Kgf.cm

Brands		Terminal
PIN#	Single	
1	AC IN (L)	ANYTEK DG28S-B-03P
2	AC IN (N)	
3	FG	
4	+12V OUT	ANYTEK DG28S-B-04P
5	+24V OUT	
6~7	COMMON	

ASSEMBLY INSTRUCTIONS

*U Case T=2.0mm
 Customer is advised to screw into the threads no more than 2.0mm

