

**KEY FEATURES**

- Power Module for PCB Mountable
- Smaller Size
- 4:1 Wide Input Range
- Regulated Output
- High Efficiency
- Operating Temperature: -40°C...+85°C (with derating)
- Remote ON/OFF Control
- 3-Year Product Warranty

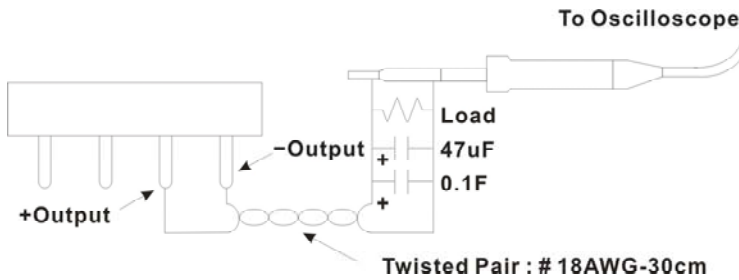

**ELECTRICAL SPECIFICATIONS**

All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

Model No. ( Single Output )	ST60-48F-12S	ST60-48F-15S	ST60-48F-24S	
Max Output Wattage (W)	60W			
Input	Voltage (with Derating) 48V (18-72V)			
Output	Voltage (V.DC.)	12	15	24
	Trim Voltage Range	±10%		
	Voltage Accuracy	±2%		
	Current (mA) max	5000	4000	2500
	Line Regulation (LL-HL) (typ.)	±0.5%		
	Load Regulation (10-100%) (typ.)	±1%		
	Capacitor Load (max) (at 48 Vin)	1000uF	680uF	150uF
	Ripple & Noise (Note 1)	1% of Vout		
	Efficiency	91%	90%	90%
Switching Frequency	200KHz			
Protection	Over Power Protection	Auto-recovery		
	Over Voltage Protection	Zener diode clamp		
	Short Circuit Protection	Auto-recovery		
Isolation	Voltage	1600 VDC.		
	Resistance	10 <sup>8</sup> ohms		
	Capacitance	2200 pF		
Environment	Operating Temperature	-40°C...+85°C (with derating)		
	Storage Temperature	-50°C...+105°C		
	Case Temperature	+105°C max.		
	Temperature Coefficient	±0.05%/°C		
	Humidity	95% RH		
MTBF	>550,000 h @ 25°C (MIL-HDBK-217F)			
Physical	Dimension (L x W x H)	2.08 x 1.08 x 0.55 Inches ( 52.8 x 27.4 x 14.0 mm ) Tolerance ±0.5 mm		
	Case Material	Six-side shielded Aluminum with Non-Conductive base, Black Anodize		
	Weight	Pending		
	Cooling Method	Free-air convection		
Safety	Agency Approvals	CE, UL, cUL (Pending)		
EMC	EMI (Note 3) (Conducted & Radiated Emission)	EN 55022 class A (Pending)		
	EMS (Noise Immunity)	EN 55024 (Pending)		

**NOTE**

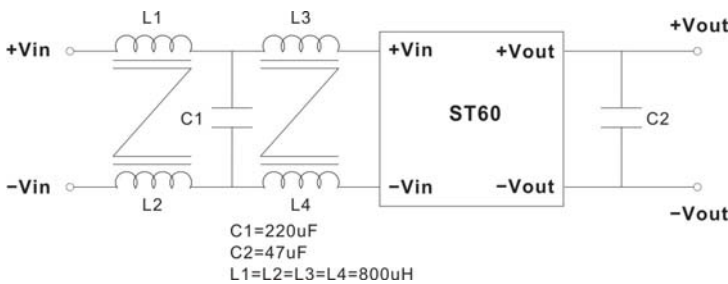
1. Ripple & Noise are measured at 20MHz of bandwidth with ceramic 0.1uF & chemi-con KY 47uF parallel capacitor.



A 30cm twisted pair of no.18 AWG copper wire is connected to a 47uF and 0.1uF capacitor of proper polarity and voltage rating. The oscilloscope probe ground led should connect right to the ground ring of the probe and be as short as possible. The oscilloscope bandwidth should be at 20MHz and connected to AC ground.

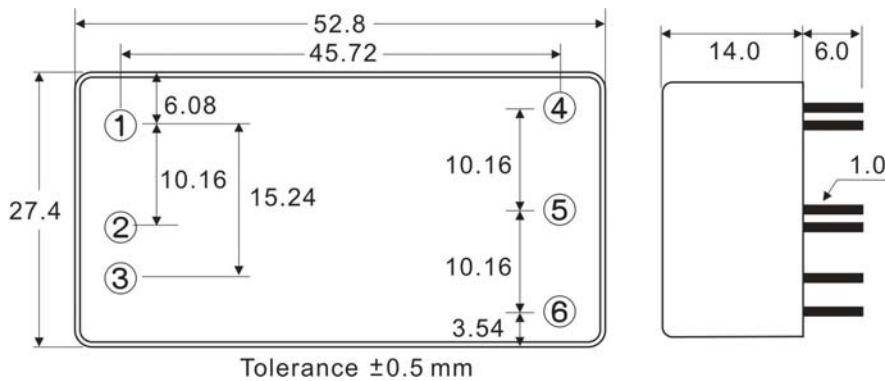
2. That "natural convection" is about 20LFM but is not equal to still air (0 LFM).

3.



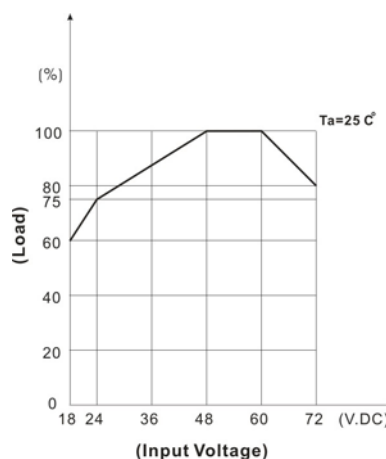
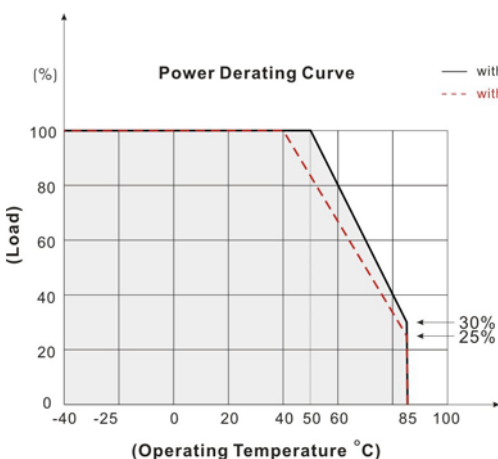
4. Please refer to our PDF file "DC-DC Application" on our website: [www.archcorp.com.tw](http://www.archcorp.com.tw)

**MECHANICAL DIMENSION ( Top View )**



PIN#	Single
1	CTRL
2	-DC IN
3	+DC IN
4	TRIM
5	-DC OUT
6	+DC OUT

**DERATING**



**TRIM**

