

KEY FEATURES

- Switching Power Module for PCB Mountable
- Universal Input: 90-264 VAC
- Single Output
- 5 VDC to 48 VDC Output
- -40°C Starting
- Screw Terminal For Optional
- 4000 VAC Input to Output Isolation
- CE, UL, Approval
- 3-Years Product Warranty



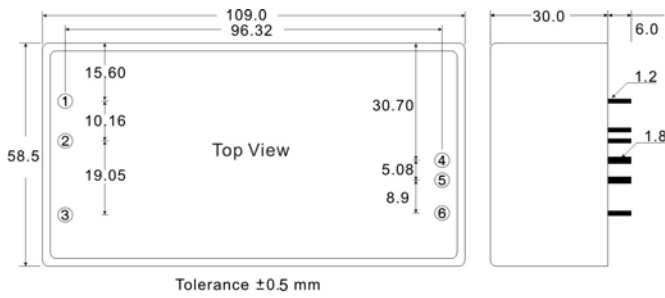
ELECTRICAL SPECIFICATIONS

Model No.	AEC60-5S	AEC60-9S	AEC60-12S	AEC60-15S	AEC60-24S	AEC60-48S	
Max Output Wattage (W)	50W	60W	60W	60W	60W	60W	
Input	Voltage						90-264 VAC or 120-370 VDC
	Frequency (Hz)						47-63 Hz
	Current (Full load)						2 A max. (115 VAC) / 1 A max. (230 VAC)
	Inrush Current (<2ms)						30 A max. (115 VAC) / 50 A max. (230 VAC)
	Leakage Current						0.5 mA max.
Output	Voltage (V.DC.)						5V 9V 12V 15V 24V 48V
	Voltage Accuracy						±2%
	Current (mA) max						10,000 6,660 5,000 4,000 2,500 1,250
	Line Regulation (LL-HL) (typ.)						±1%
	Load Regulation (5-100%) (typ.)						±1%
	Minimum Load						1%
	Maximum Capacitive Load						80000 uF 28000 uF 14000 uF 12000 uF 4000 uF 950 uF
	Ripple						<0.2% Vout +40mV max (Vp-p)
	Noise						<0.5% Vout +50mV max (Vp-p)
	Efficiency (at 230V)						82% 84% 86% 86% 86% 86%
	Trim						±10%
	Hold-up Time						10 ms min.
Switching Frequency						100 kHz	
Protection	Over Power Protection						Auto recovery
	Over Voltage Protection						Zener diode clamp
	Short Circuit Protection						Auto recovery
Isolation	Input-Output (V.AC)						4000V
	Input-FG (V.AC)						1500V
	Output-FG (V.AC)						500V
Environment	Operating Temperature						-40°C...+70°C (with derating)
	Storage Temperature						-50°C...+85°C
	Temperature coefficient						±0.02%/°C
	Humidity						95% RH
	MTBF						>130,000 h @ 25°C (MIL-HDBK-217F)
Physical	Dimension (L x W x H)						4.3 x 2.3 x 1.18 Inches (109.0 x 58.5 x 30.0 mm) Tolerance ±0.1 mm
	Weight						310 g
	Cooling Method						Free air convection
Safety	Agency Approvals						CE, UL60950
EMC	EMI (Conducted & Radiated Emission)						EN 55022 class B
	EMS (Noise Immunity)						EN 55024

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

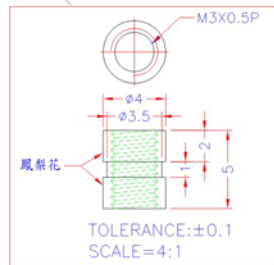
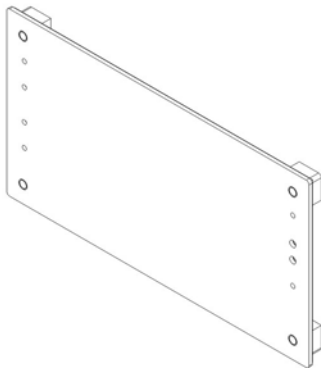
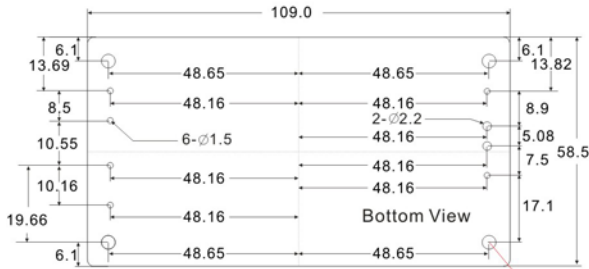
2.Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.

3.It's necessary Varistor 14S471K at L / N input side in parallel.

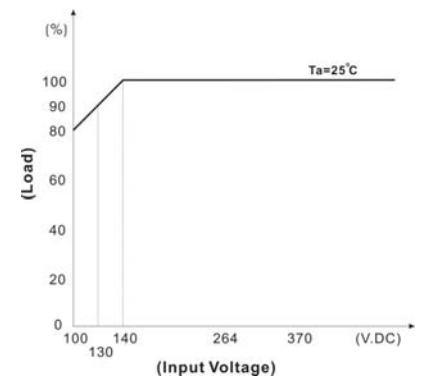
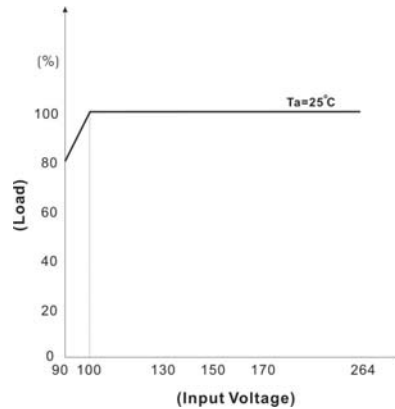
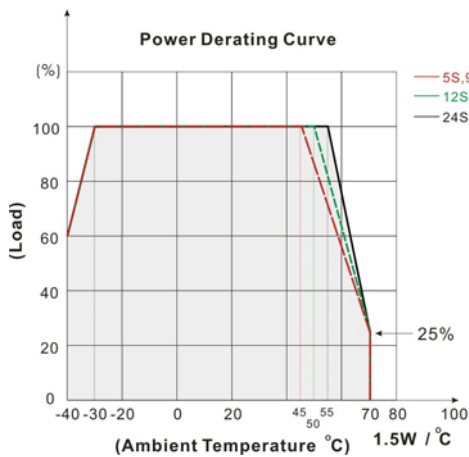


MECHANICAL DIMENSION (Top View)

PIN#	SINGLE
1	AC IN (N)
2	AC IN (L)
3	FG
4	+DC OUT
5	-DC OUT
6	Trim



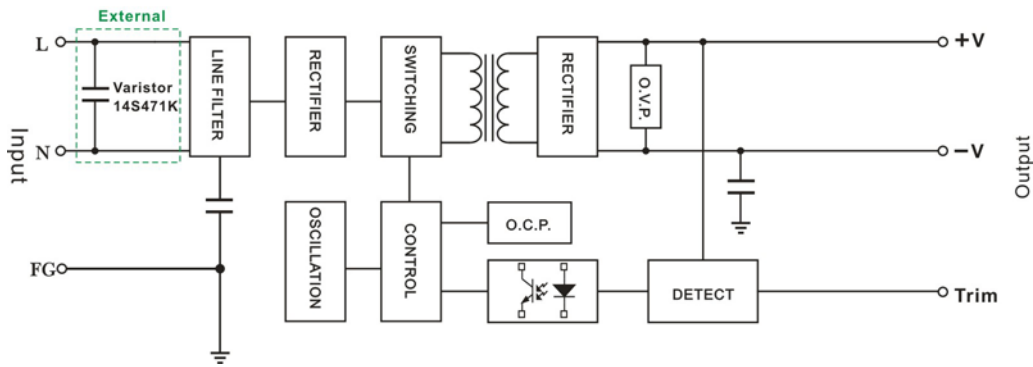
DERATING



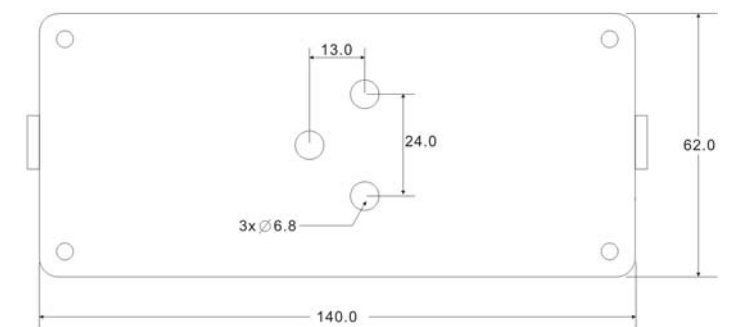
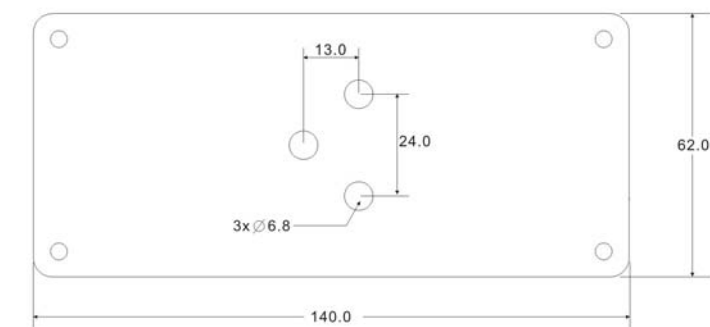
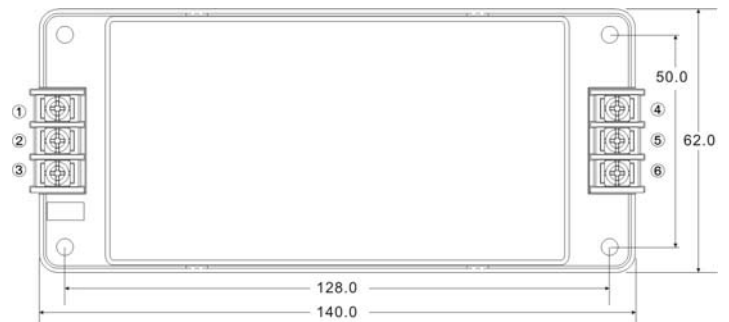
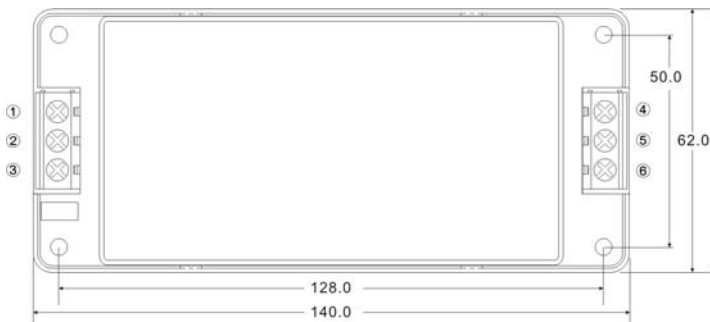
BLOCK DIAGRAM

	5S		9S		12S		15S		24S		48S	
Trim → -V	+10%	0%	+10%	0%	+10%	0%	+10%	0%	+10%	0%	+10%	0%
	500Ω	~ 1M	6KΩ	~ 1M	4KΩ	~ 1M	5KΩ	~ 1M	12KΩ	~ 1M	12KΩ	~ 1M
Trim → +V	0%	-10%	0%	-10%	0%	-10%	0%	-10%	0%	-10%	0%	-10%
	1M	~ 500Ω	1M	~ 20KΩ	1M	~ 40KΩ	1M	~ 60KΩ	1M	~ 110KΩ	10M	~ 290KΩ

Single Output



SCREW TERMINAL
AEC60-A2

AEC60-A5


PIN#	Single
1	FG
2	AC IN (N)
3.	AC IN (L)
4	+DC OUT
5	-DC OUT
6	Trim

PIN#	Single
1	FG
2	AC IN (N)
3.	AC IN (L)
4	+DC OUT
5	-DC OUT
6	Trim