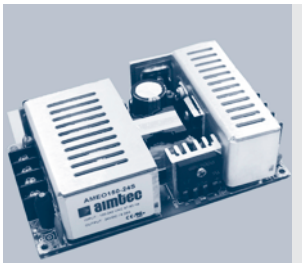
AMEO150 Series



150 Watt (Open Frame) AC/DC Converter

- OPEN FRAME SWITCHING POWER SUPPLY
- UNIVERSAL INPUT RANGE 90…264 VAC, 47…63HZ OR 120…370VDC
- ULTRA COMPACT SIZE
- 3000 VAC INPUT-OUTPUT ISOLATION
- REGULATED OUTPUT
- 150W WITH 18CFM FAN
- EFFICIENCY UP TO 75%
- PFC FUNCTION

ELECTRICAL SPECIFICATIONS

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

Model No. (Single Output)		AMEO150-3.3S	AMEO150-5S	AMEO150-12S	AMEO150-15S	AMEO150-24S	AMEO150-48S
Max. Output Wattage (Convection)		**66W**	**100W**	**120W**	**120W**	**120W**	**120W**
Max. Output Wattage (18CFM Fan)		**82.5W**	**125W**	**150W**	**150W**	**150W**	**150W**
Input	Voltage	90-260 VAC or 120-370 VDC					
	Frequency (Hz)	47-63 Hz					
	Current (Full Load)	3A Max. (115VAC) / 1.5A Max. (230VAC)					
	Inrush Current (<2ms)	30A Max. (115VAC) / 60A Max. (230VAC)					
	Leakage Current	3.5mA max.					
	Power Factor	PF>0.97 (115VAC) / PF>0.93 (230 VAC) at Full Load					
Output	Voltage (VDC)	3.3V	5V	12V	15V	24V	48V
	Voltage Accuracy	±2%					
	Max. Current (Convection)	20A	20A	10A	8A	5A	2.5A
	Max. Current (18CFM Fan)	25A	25A	12.5A	10A	6.25A	3.13A
	Line Regulation (LL-HL) (typ.)	±1%					
	Load Regulation (5-100%) (typ.)	±1%					
	Minimum Load	0%					
	Maximum Capacitive Load	470-23,000µF Depending on model.					
	Ripple & Noise	100mV max.		1% max.			
	Efficiency	68%	70%	75%	75%	75%	75%
	Hold-up Time	18ms min.					
	Switching Frequency	67kHz					
Protection	Over Power Protection	Auto Recovery					
	Over Voltage Protection	Auto Recovery					
	Short Circuit Protection	Auto Recovery					
Isolation	Input-Output (VAC)	3000V					
	Input-FG (VAC)	1500V					
	Output-FG (VAC)	500V					
Environment	Operating Temperature (Conv)	-25°C ... +40°C (without derating)					
	Operating Temperature (Fan)	-25°C ... +50°C (without derating)					
	Storage Temperature	-40°C ... +85°C					
	Temperature Coefficient	0.02% / °C (0...50°C)					
	Humidity	95% RH					
	MTBF	> 100,000 hrs @ 25°C (MIL-HDBK-217F)					
Physical	Dimensions (LxWxH)	5.00x3.00x1.40 Inches (127.0x76.2x35.5mm) Tolerance ±0.5mm					
	Weight	365g					
	Cooling Method	Free Air Convection / 18CFM Forced Air					
EMC	EMI (Conducted & Radiated Emission)	EN55022 Class B					
	EMS (Noise Immunity)	EN55024					

Specifications are subject to change without notification.

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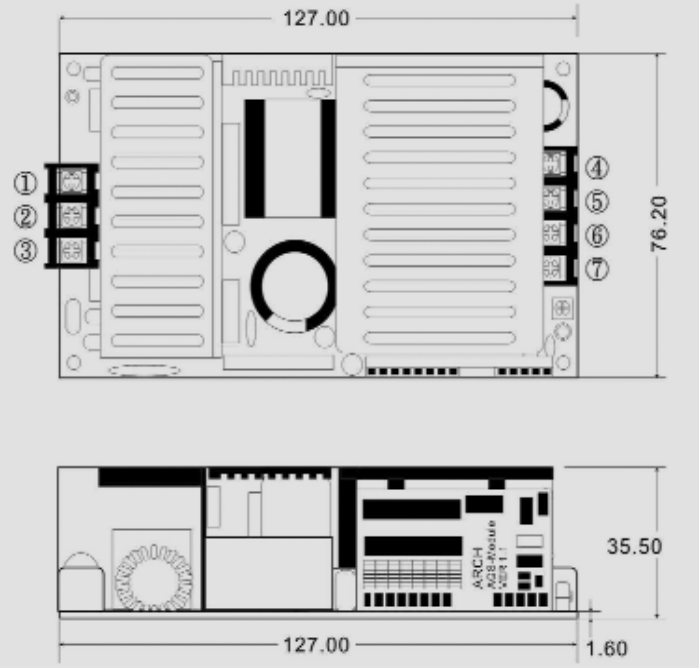
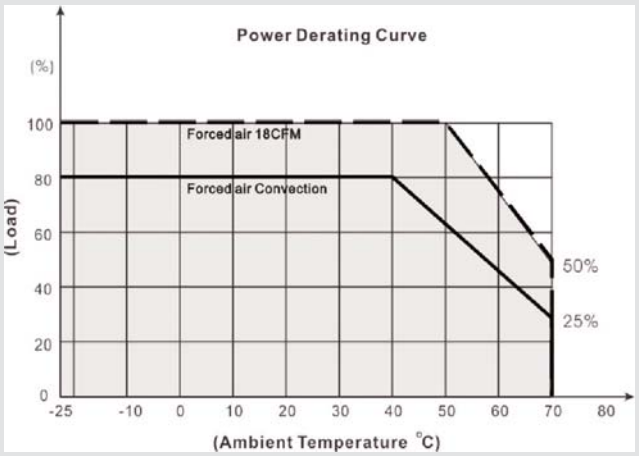
OUTLINE DIMENSIONS & PIN CONNECTIONS

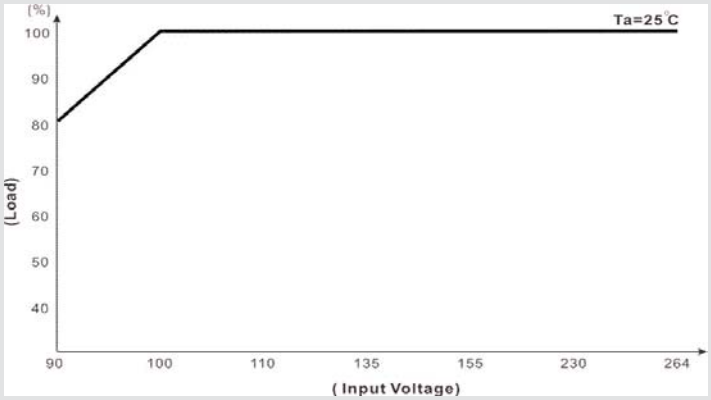
MECHANICAL DIMENSION (Top View)



Pin	Single
1	FG
2	AC Input (N)
3	AC Input (L)
4, 5	+DC Output
6, 7	-DC Output

DERATING





BLOCK DIAGRAM

