

**ALF240 SERIES**
**240 Watts**
**KEY FEATURES**

- IP65 Design for Indoor or Outdoor Installations
- Universal Input: 100-240 VAC (Up to 277 VAC)
- Built-in active PFC function, PF>0.95
- Free Air Convection
- High reliability
- With Constant Current & Constant Voltage
- Output voltage and constant current level can be adjusted through internal potential meter
- LED Power Application
- 2-Years Product Warranty


**ELECTRICAL SPECIFICATIONS**

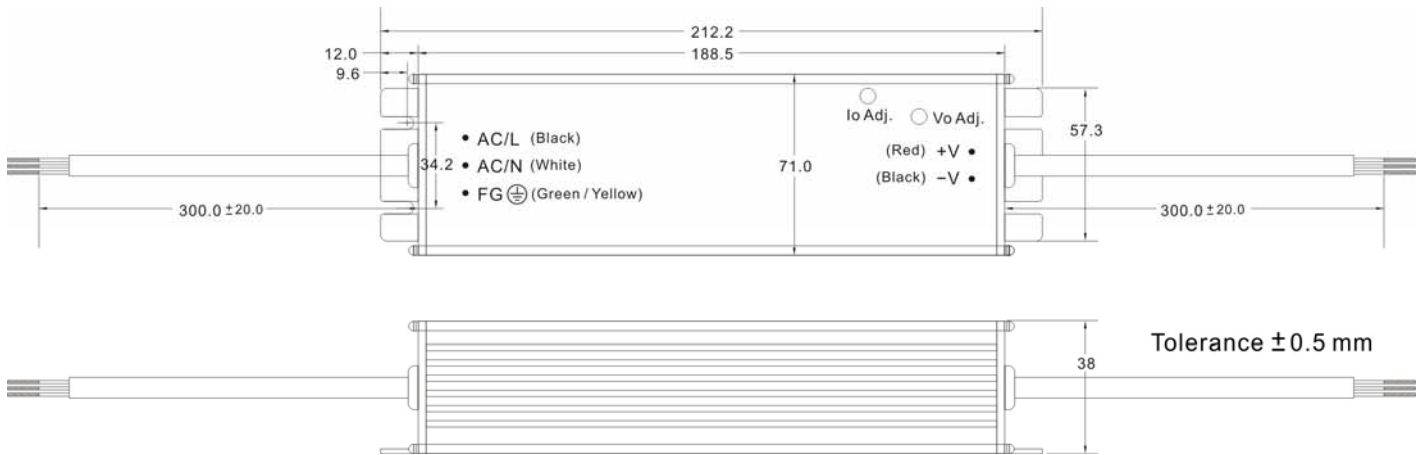
Model No.	ALF240-12S	ALF240-24S	ALF240-36S	ALF240-48S	ALF240-54S
Max Output Wattage (W)	192W	240W			
Input	Voltage				
	90-264 VAC or 120-370 VDC (H Type up to 277 VAC)				
	Frequency (Hz)				
	47-63 Hz				
	Current (Full load)				
	3 A max. (115 VAC) / 1.5 A max. (230 VAC)				
Output	Inrush Current (<2ms)				
	30 A max. (115 VAC) / 60 A max. (230 VAC)				
	Leakage Current				
	<0.5 mA max.				
	Power Factor				
	PF>0.97 (115 VAC) / PF>0.93 (230 VAC) at Full Load				
Output	Voltage (V.DC.)				
	12V	24V	28V	48V	54V
	Constant Current Range (V.DC.)				
	6 ~ 12V	12 ~ 24V	18 ~ 36V	24 ~ 48V	27 ~ 54V
	Voltage Accuracy				
	±2%				
	Current (Convection) (A) max				
	16	10	6.66	5	4.44
	Current Adjustment Range (A)				
	8 ~ 16	5 ~ 10	3.33 ~ 6.66	2.5 ~ 5	2.22 ~ 4.44V
	Line Regulation				
	±1%				
	Load Regulation				
	±1%				
Minimum Load					
0%					
Maximum Capacitive Load					
470-23,000µF depending on model					
Ripple & Noise (max.)					
1% of Vout max.					
Efficiency (typ.)					
90%	90%	92%	93%	93%	
Hold-up Time					
18 ms min.					
Switching Frequency					
80 kHz					
Protection	Over Power Protection				
	Auto recovery				
	Over Voltage Protection				
	Auto recovery				
Isolation	Short Temperature				
	Auto recovery				
	Short Circuit Protection				
	Auto recovery				
Isolation	Input-Output (V.AC)				
	3000V				
	Input-FG (V.AC)				
1500V					
Output-FG (V.AC)					
500V					
Environment	Operating Temperature				
	-25°C...+70°C (with derating)				
	Storage Temperature				
	-40°C...+85°C				
	Temperature Coefficient				
	±0.02%/°C ( 0~50°C )				
Humidity					
95% RH					
MTBF					
>100,000 h @ 25°C (MIL-HDBK-217F)					
Vibration					
10~500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes.					

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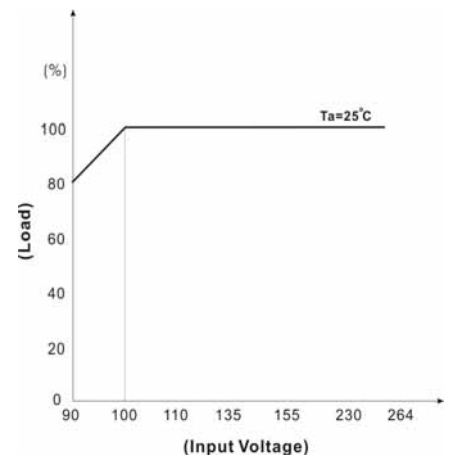
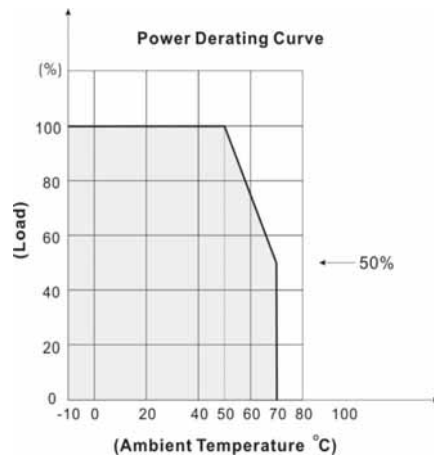
Model No.		ALF240-12S	ALF240-24S	ALF240-36S	ALF240-48S	ALF240-54S
Physical	Dimension (L x W x H)	8.3 x 2.28 x 1.65 Inches (211.0 x 58.0 x 42.0 mm) Tolerance $\pm 0.5$ mm				
	Weight	825 g				
	Cooling Method	Free air convection				
Safety	Agency Approvals	Design refer to UL60950-1 , CE (Pending)				
EMC	EMI (Conducted & Radiated Emission)	Design refer to EN 61000-6-3 · EN 55015 (Pending)				
	EMS (Noise Immunity)	Design refer to EN 55024 (Surge 4KV) (Pending)				

1. All specifications valid at nominal 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.

### MECHANICAL DIMENSION ( Top View )



### DERATING



### BLOCK DIAGRAM

Single Output

