

ALF240 SERIES

240 Watts

KEY FEATURES

- IP65 Design for Indoor or Outdoor LED Installations
- Universal Input: 100-240 VAC (Up to 277 VAC)
- Three in one dimming function
(1~10VDC & PWM Signal or resistance)
- 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
- 3-Years Product Warranty



IP65/67   **us**
Preliminary
E347942
LEVEL3

ELECTRICAL SPECIFICATIONS

Model No.		ALF240-12S	ALF240-24S	ALF240-28S	ALF240-36S	ALF240-48S
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)				
	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	36V	48V
	Constant Current Range (V.DC.)	6 ~ 12V	12 ~ 24V	14 ~ 28V	18 ~ 36V	24 ~ 48V
	Voltage Adjustment Range	±5%				
	Voltage Accuracy	±2%				
	Current (Convection) (A) max	16	10	8.57	6.66	5
	Current Adjustment Range (A)	8 ~ 16	5 ~ 10	4.28 ~ 8.57	3.33 ~ 6.66	2.5 ~ 5
	Line Regulation	±1%				
	Load Regulation	±1%				
	Minimum Load	1%				
	Maximum Capacitive Load	470-23,000µF depending on model				
	Ripple & Noise (max.)					
	Efficiency (typ.)	90%	90%	90%	92%	93%
	Hold-up Time	8 ms min.				
	Switching Frequency	80 kHz				
Protection	Over Power Protection	Auto recovery				
	Over Voltage Protection	Auto recovery				
	Over Temperature Protection	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.				

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 0.1µF & 47µF parallel capacitor.

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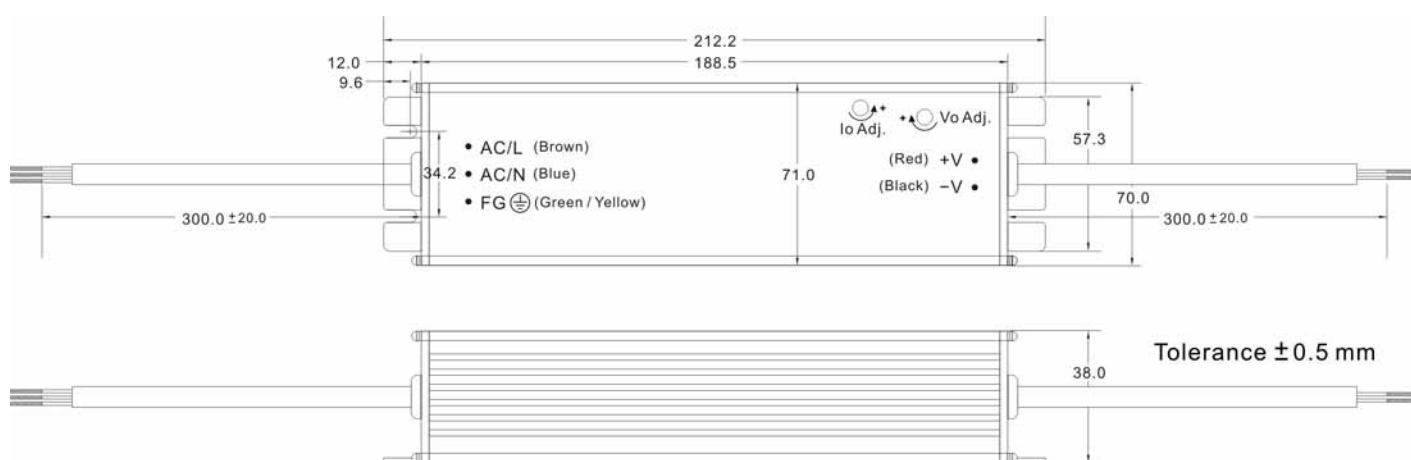
Model No.		ALF240-12S	ALF240-24S	ALF240-28S	ALF240-36S	ALF240-48S
Physical	Dimension (L x W x H)	8.35 x 2.76 x 1.50 Inches (212.2 x 70.0 x 38.0 mm) Tolerance ± 0.5 mm				
	Weight	1010 g				
	Cooling Method	Free air convection				
Safety	Agency Approvals	UL60950-1 , CE				
EMC	EMI (Conducted & Radiated Emission)	EN 55022				
	EMS (Noise Immunity)	EN 55024 (Surge 4KV)				

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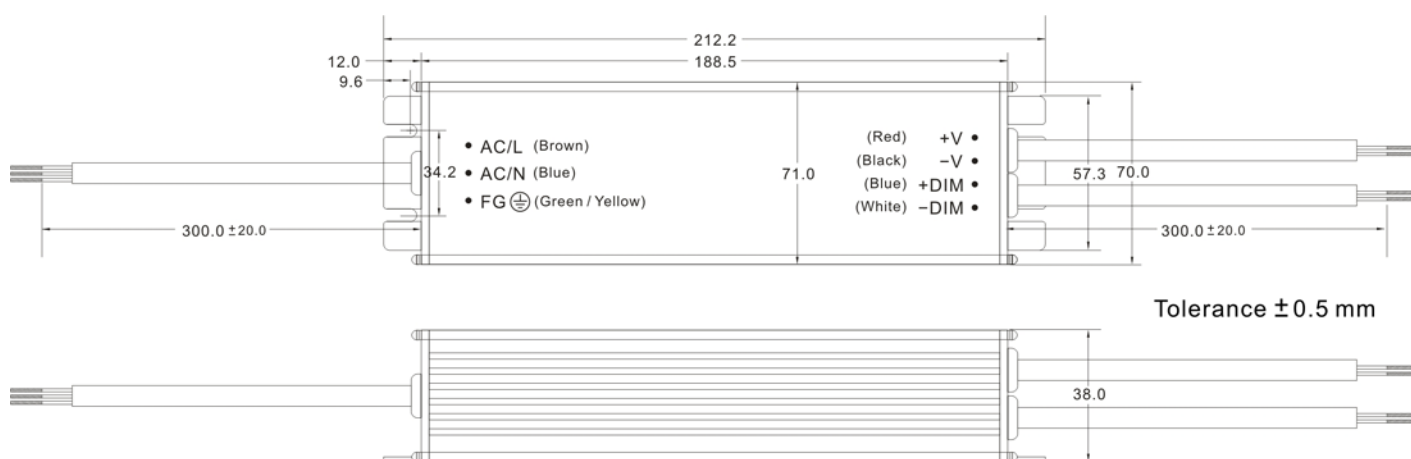
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MECHANICAL DIMENSION (Top View)

IP65 Design



IP67 Design

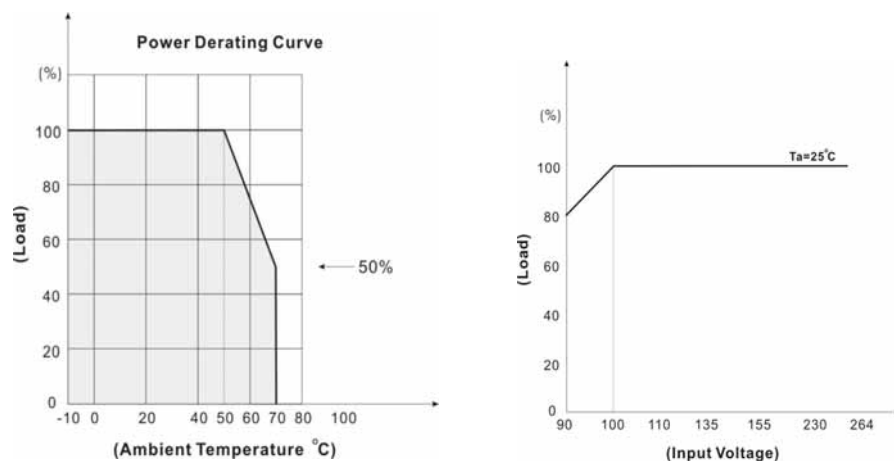


ASSEMBLY INSTRUCTIONS

*U Case T=2.5mm

Customer screws into the length of the case no higher than 0.5mm
(Namely screw length for load plate thickness plus 3.0mm)

DERATING



BLOCK DIAGRAM

Single Output

