

## KEY FEATURES

- IP65 Design for Indoor or LED 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



**IP65** **CE** **UL** **US**  
E199779  
LEVEL3

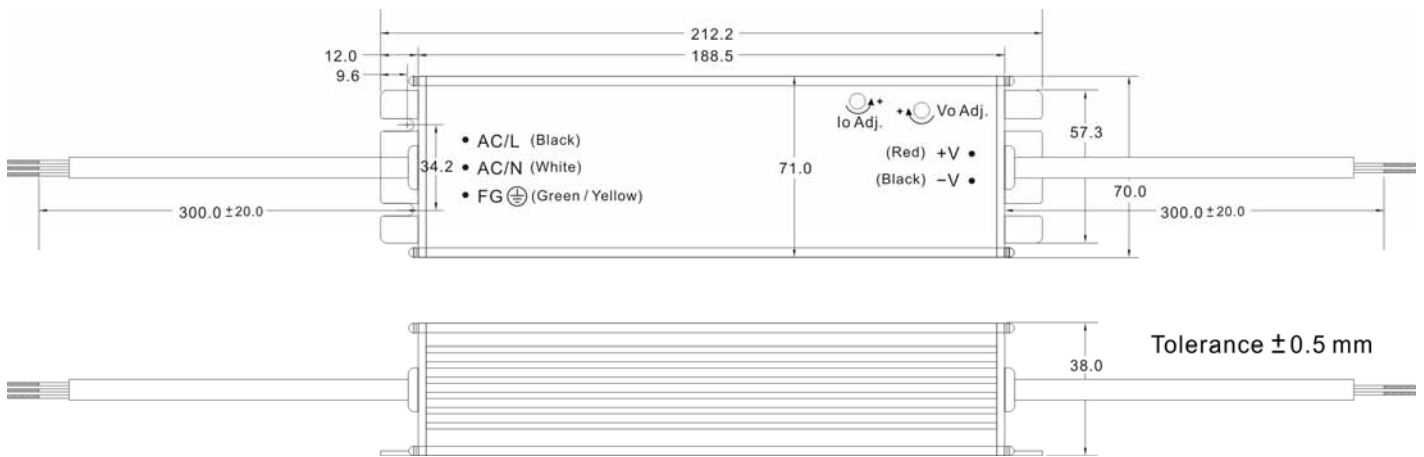
## ELECTRICAL SPECIFICATIONS

Model No.	ALF100-12S	ALF100-24S	ALF100-36S	ALF100-48S
Max Output Wattage (W)	125W	150W		
Input	Voltage			
	90-264 VAC or 120-370 VDC (H Type up to 277 VAC)			
	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) / 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			
	36V			
	48V			
	Constant Current Range (V.DC.)			
	6 ~ 12V			
	12 ~ 24V			
	18 ~ 36V			
	24 ~ 48V			
	Voltage Accuracy			
	±2%			
	Current (Convection) (A) max			
8.3				
4.16				
2.77				
2.1				
Current Adjustment Range (A)				
4 ~ 8.3				
2.1 ~4.16				
1.4 ~ 2.77				
1 ~ 2.1				
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%				
Hold-up Time				
18 ms min.				
Switching Frequency				
100 kHz				
Protection	Over Power Protection			
	Auto recovery			
	Over Voltage Protection			
	Auto recovery			
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.				

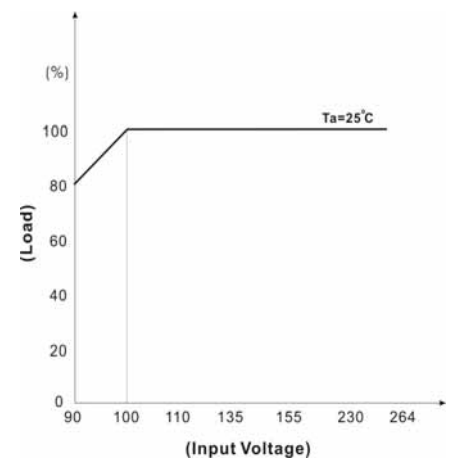
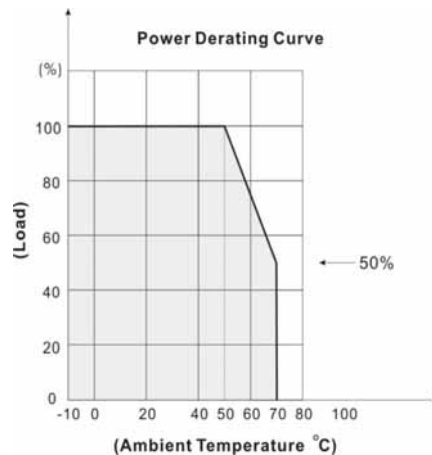
Model No.		ALF100-12S	ALF100-24S	ALF100-36S	ALF100-48S
Physical	Dimension (L x W x H)	8.35 x 2.76 x 1.50 Inches (212.2 x 70.0 x 38.0 mm) Tolerance $\pm 0.5$ mm			
	Weight	1010 g			
	Cooling Method	Free air convection			
Safety	Agency Approvals	Design refer to UL60950-1 , CE , Class I			
EMC	EMI (Conducted & Radiated Emission)	Design refer to EN 61000-6-3 · EN 55015			
	EMS (Noise Immunity)	Design refer to EN 55024 (Surge 4KV)			

- All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
- Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.

### MECHANICAL DIMENSION ( Top View )



### DERATING



### BLOCK DIAGRAM

Single Output

