

**KEY FEATURES**

- Fully Isolated Plastic Case with IP67 Level
- Universal Input: 90-305 VAC or 120-430 VDC
- Three in one dimming function  
(1~10VDC & PWM Signal or resistance)
- Built-in Active PFC Function
- Free Air Convection
- High Reliability
- With Constant Current & Constant Voltage
- Output Voltage and Constant Current Level can Be Adjusted Through Internal Potential Meter
- Isolation Class II
- LED Power Application
- 3-Years Product Warranty


**IP67 CE**
**ELECTRICAL SPECIFICATIONS**

Model No.	APF100-12S	APF100-24S	APF100-36S	APF100-48S	APF100-54S
Max Output Wattage (W)	100W				
Input	Voltage				
	90-305 VAC or 120-430 VDC				
	Frequency (Hz)				
	47-63 Hz				
	Current (Full load)				
	1.5 A max. (115 VAC) / 0.7 A max. (230 VAC) / 0.6 A max. (277 VAC)				
Output	Inrush Current (<2ms)				
	40 A max. (115 VAC) / 60 A max. (230 VAC)				
	Leakage Current				
	<0.75 mA max.				
	Power Factor				
	PF>0.97 (115 VAC) / PF>0.9 (230 VAC) at Full Load				
	Voltage (V.DC.)				
	12V      24V      36V      48V      54V				
	Constant Current Range (V.DC.)				
	6 ~ 12V      12 ~ 24V      18 ~ 36V      24 ~ 48V      27 ~ 54V				
	Voltage Accuracy				
	±2%				
	Current (Convection) (mA) max				
	8333      4166      2777      2083      1852				
Current ADJ Range (mA)					
4166 ~ 8333      2083 ~ 4166      1388 ~ 2777      1041 ~ 2083      926 ~ 1852					
Line Regulation					
±1%					
Load Regulation					
±1%					
Minimum Load					
1%					
Maximum Capacitive Load					
100,000 uF      50,000 uF      8,000 uF      4,000 uF      3,000 uF					
Ripple & Noise (max.)					
100mVp-p      100mVp-p      100mVp-p      200mVp-p      200mVp-p					
Efficiency (typ.)					
89%      91.5%      91.5%      91.5%      91.5%					
Hold-up Time					
25 ms min.					
Switching Frequency					
100 kHz					
Protection	Over Power Protection				
	Auto recovery				
	Over Voltage Protection				
	Auto recovery				
Overt Temperature Protection					
Auto recovery					
Short Circuit Protection					
Auto recovery					
Isolation	Input-Output (V.AC)				
	3750V				
	Input-FG (V.AC)				
1880V					
Output-FG (V.AC)					
500V					
Environment	Operating Temperature				
	-30°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.

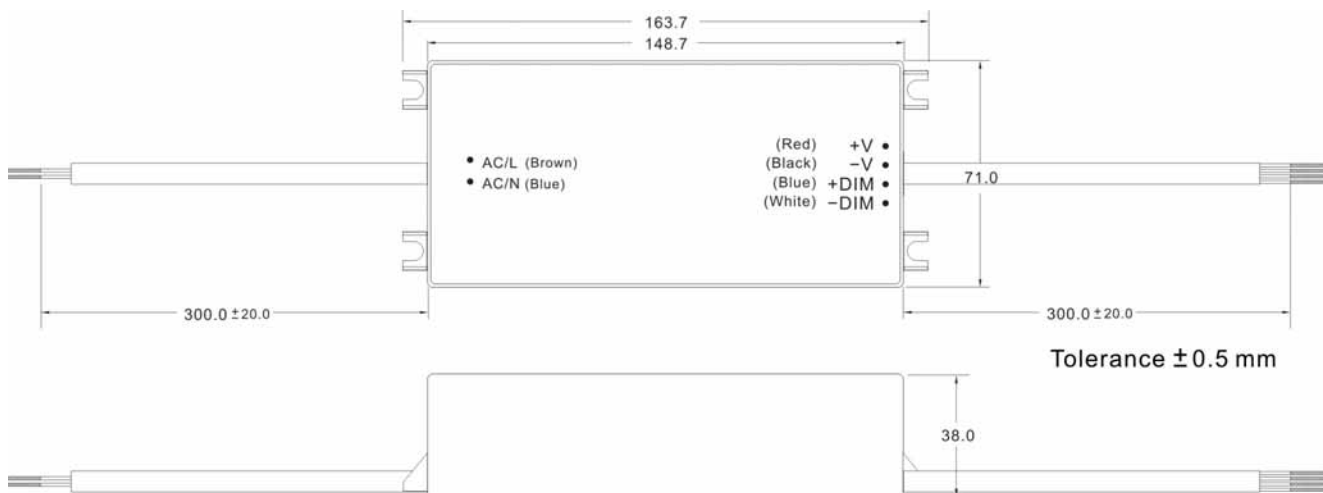
2. Ripple &amp; Noise are measured at 20MHz of bandwidth with 0.1uF &amp; 47uF parallel capacitor.

APF100 SERIES100 Watts

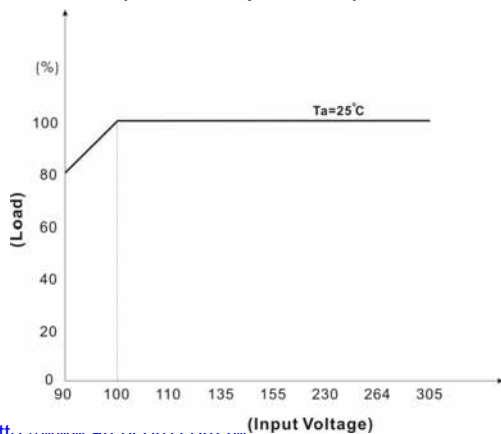
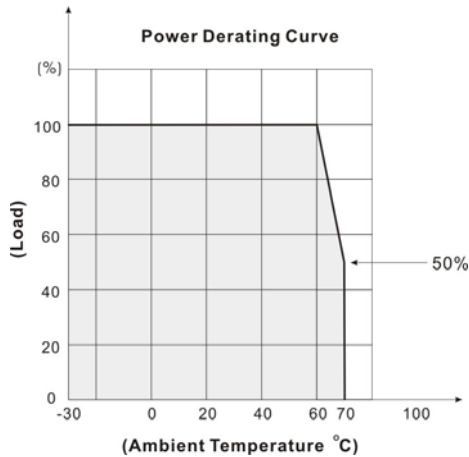
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Physical	Dimension (L x W x H)	6.44 x 2.79 x 1.50 Inches (163.7 x 71.0 x 38.0 mm) Tolerance $\pm 0.5$ mm			
	Weight	g			
	Cooling Method	Free air convection			
Safety	Agency Approvals	EN61347-1:2008、EN61347-2-13:2006 (Pending)			
EMC	EMI (Conducted & Radiated Emission)	EN 55015 (Pending)			
	EMS (Noise Immunity)	EN 61547 (Pending)			
	Surge	2KV L-L, 4KV L-E			

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### MECHANICAL DIMENSION ( Top View )



### DERATING



### BLOCK DIAGRAM

