

APF150 SERIES

150 Watts

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

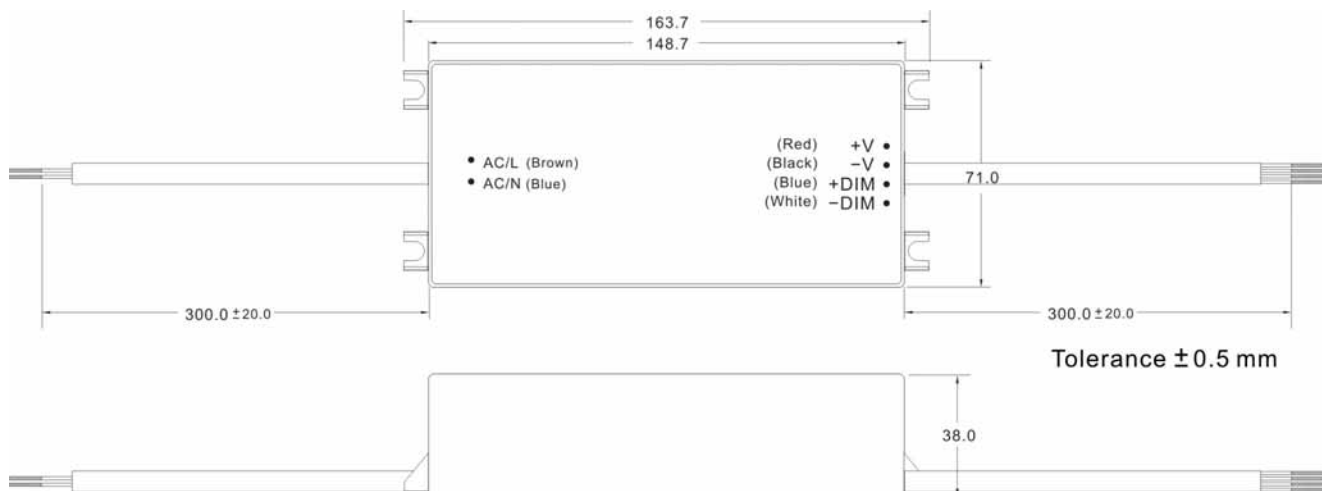
ELECTRICAL SPECIFICATIONS

Model No.		APF150-12S	APF150-24S	APF150-36S	APF150-48S	APF150-54S
Max Output Wattage (W)		150W				
Input	Voltage	90-305 VAC or 120-430 VDC				
	Frequency (Hz)	47-63 Hz				
	Current (Full load)	2 A max. (115 VAC) / 1 A max. (230 VAC) / 0.9 A max. (277 VAC)				
	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>0.95 (230 VAC) / PF>0.9 (277 VAC) at Full Load				
Output	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	12500	6250	4166	3125	2777
	Current ADJ Range (mA)	6250 ~ 12500	3125 ~ 6250	2083 ~ 4166	1560 ~ 3125	1388 ~ 2777
	Line Regulation	±1%				
	Load Regulation	±1%				
	Minimum Load	1%				
	Maximum Capacitive Load	100,000 uF	50,000 uF	33,000 uF	6,000 uF	6,000 uF
	Ripple & Noise (max.)	100mVp-p	100mVp-p	100mVp-p	200mVp-p	200mVp-p
	Efficiency (typ.)	90.5%	92.5%	93.5%	92.5%	92.5%
	Hold-up Time	25 ms min.				
	Switching Frequency	100 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)	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	>75,000 h @ 25°C (MIL-HDBK-217F)				
	Vibration	10~500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes.				

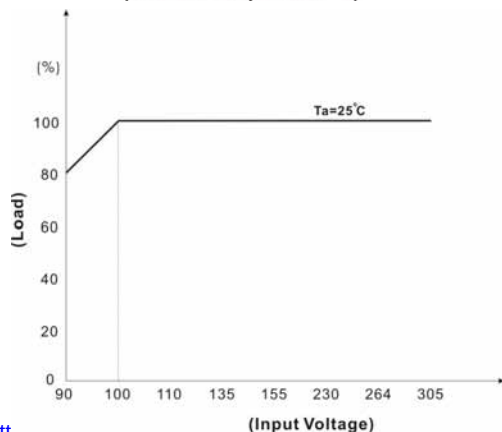
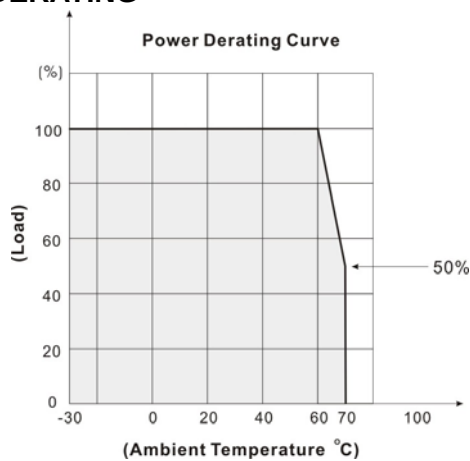
Model No.		APF150-12S	APF150-24S	APF150-36S	APF150-48S	APF150-54S
Physical	Dimension (L x W x H)	6.44 x 2.79 x 1.50 Inches (163.7 x 71.0 x 38.0 mm) Tolerance ± 0.5 mm				
	Weight	g				
	Cooling Method	Free air convection				
Safety	Agency Approvals	EN61347-1:2008 、 EN61347-2-13:2006 (Pending)				
EMC	EMI (Conducted & Radiated Emission)	EN 55015 (Pending)				
	EMS (Noise Immunity)	EN 61547 (Pending)				
	Surge	2KV L-L, 4KV L-E				

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 0.1uF & 47uF parallel capacitor.

MECHANICAL DIMENSION (Top View)



DERATING



BLOCK DIAGRAM

