

WP Series

■ Application

AC/DC Active PFC LED Driver Module

■ Size

97.5*44*28 mm (L*W*H)

■ Features

- Universal AC input / Full range (Up to 277V)
- Built-in active PFC (Power Factor Correction) function
- High efficiency up to 89%
- Protections: Short circuit / Over Voltage
- Class 2 power supply unit, no FG
- Isolated
- Suitable for dry / damp / wet locations
- Made in Taiwan
- 5 years warranty



■ Specifications

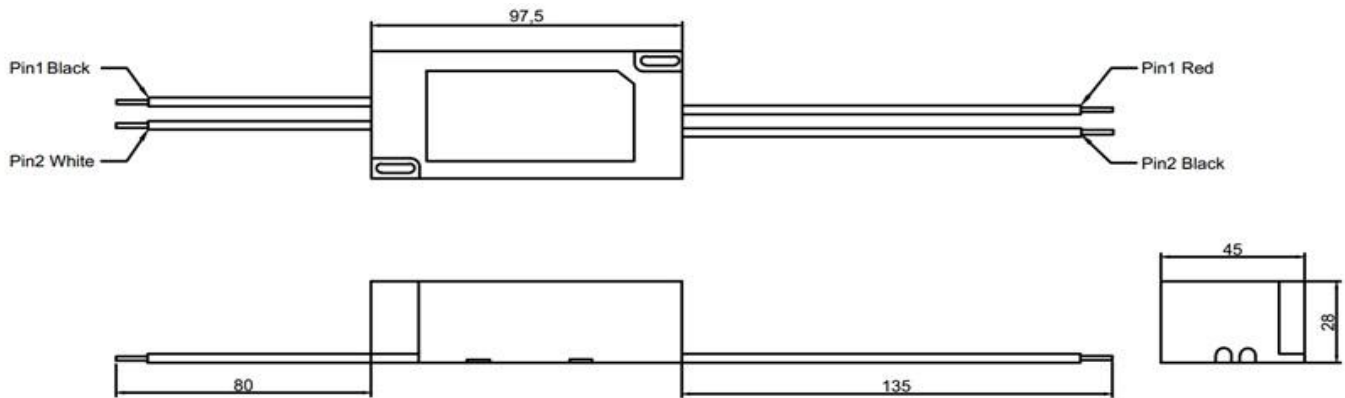
MODEL		WP30-1020	WP30-2040	WP30-4080	WP15-3060
OUTPUT	DC Voltage Range Note.3	10-20V	20-40V	40-80V	30-60V
	Rated Current Range Note.6	750~2000mA	375~1500mA	185~750mA	250mA~500mA
	Output Voltage at no Load	20~30V	30~50V	50~90V	40~70V
	Ripple&Noise (Max.)	2Vp-p	4Vp-p	8Vp-p	6Vp-p
	Max Power	30W			15W
	Current Accuracy	±5%			
	SETUP time	500ms / 230VAC at full load			
INPUT	Voltage Range	100~277V AC			
	Frequency Range	47 ~ 63Hz			
	THD	<20% / 230V/50Hz at full load			
	Power Factor	PF >0.9 @100-277VAC at full load			
	Efficiency (Typ.)	85%	87%	89%	85%
	AC Current (Max.)	0.4A at 115VAC / 0.2A at 230VAC / 0.15A at 277VAC			
	Inrush Current (Max.)	35A at 230V AC			
	Leakage Current	<0.5mA / 240V AC			
PROTECTION	Short Circuit	Hiccup Mode ; After the fault condition is removed, automatic recovery			
	Over Voltage	Hiccup Mode ; After the fault condition is removed, automatic recovery			
ENVIRONMENT	Operating Temp.	-20~50°C at full load			
	Operating Temp.(Life-time 40000h)	Tc: 75°C			
	Operating Humidity	20% ~ 90% RH non-condensing.			
	Storage Temp., Humidity	-40~80°C, 10 ~ 95% RH			
Vibration	10~500 Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axes				
SAFETY & EMC	Safety Standards	EN61347-1,EN61347-2-13			
	Withstand Voltage	I/P - O/P: 3.75K VAC			
	Isolation Resistance	I/P - O/P:100M ohms / 500VDC at 25°C, 70% RH			
	EMI Conduction & Radiation	Compliance to EN55015 Class B			
	Harmonic Current	EN61000-3-2 Class C,EN61000-3-3			
	EMS Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547, Light industry level,criteria B			

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OTHERS	MTBF	>50K hours min. MIL-HDBK-217F (50°C)
	Dimension (L*W*H)	97.5*44*28 mm
	Packing	
	Weight	200g
NOTE	1. All parameters without specially mentioned are measured at input 230VAC, rated load, and 25°C of ambient temperature.	
	2. Please power on LED driver after LEDs are well connected	
	3. Constant current operation is in rated output voltage. This is suitable for LED applications. Any special electrical requirements for the specific application, please reconfirm with us.	
	4. The LED driver module is considered as a component to final equipment operation. The final equipment manufacturers must re-qualify EMC test on total installation again due to EMC performance will be affected by the total installation.	
	5. Please connect to LEDs directly, not suitable for using additional drivers.	
	6. Any fixed output current can be customized during rated current range.	

■ Mechanical Specification

Unit : mm



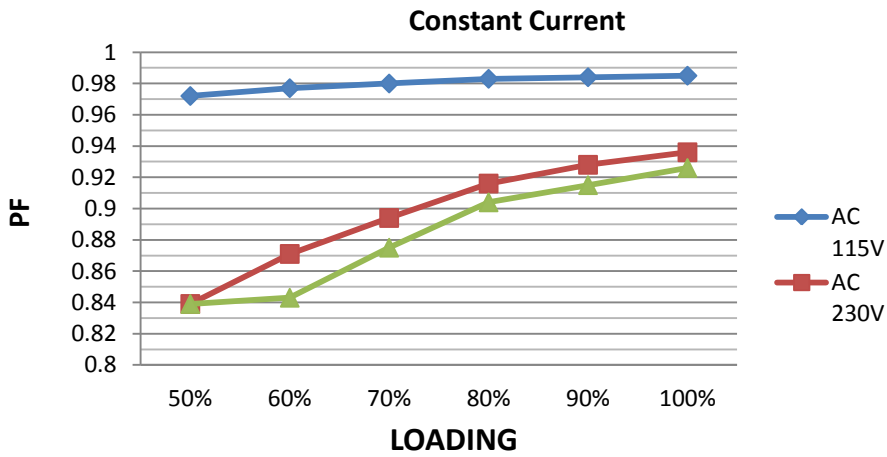
Connector Number	Connector Type	Pin Number	Signal
Input	#1015 AWG18	Pin1 (Black)	LINE
		Pin2 (White)	NEUTRAL
Output	#1015 AWG18	Pin1 (Red)	LED+
		Pin2 (Black)	LED-

■ P/N Information

WP 30 - 2040 - 1000

WP	IP67 30W LED Power Supply Product Family
30	Maximum Output Power
- 2040	Rated Voltage Range
- 1000	Rated Current

Power Factor Characteristic (WP30-2040-1000)



Efficiency vs Load (WP30-2040-1000)

