



## ● FEATURES

- ❖ 3 Optional dimming(0-10V / PWM / Resistance)
- ❖ Universal AC input/Full range(100-260VAC)
- ❖ Protections: Short circuit / Overload / Over voltage / Over temperature
- ❖ Built\_in active PFC function
- ❖ Fully encapsulated with IP67 level
- ❖ UL60950 Class 2 power unit, pass LPS
- ❖ Cooling by free air convection
- ❖ 100% full load burn-in test
- ❖ High reliability
- ❖ Suitable for LED lighting and moving sign applications
- ❖ Compliance to worldwide safety regulations for lighting
- ❖ Damp / wet location outdoor application
- ❖ 3 years warranty

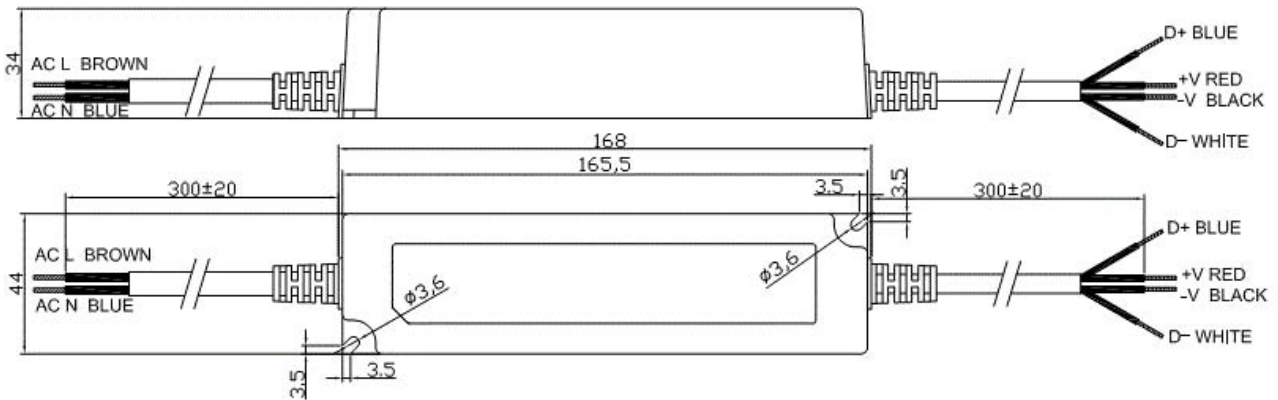
## ● SPECIFICATION

MODEL		IS 60DP -700	IS 60DP -1050	IS 60DP -1400	IS 60DP -1750	IS 60DP -2100	IS 60DP -2450
OUTPUT	DC VOLTAGE	80V	60V	42V	36V	28V	24V
	CONSTANT CURRENT REGION	40~80V	30~60V	22~42V	20~36V	14~28V	12~24V
	RATED CURRENT	700mA	1050mA	1400mA	1750mA	2100mA	2450mA
	RATED POWER	56W	63W	58.8W	63W	58.8W	58.8W
	RIPPLE & NOISE (max.)	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p
	CURRENT RIPPLE	<1%					
	LINE REGULATION	±1.0%					
	LOAD REGULATION	±2.0%					
	SETUP,RISE TIME	1000ms, 80ms / 230VAC 1000ms, 80ms / 115VAC at full load					
HOLD UP TIME (Typ.)	60ms / 230VAC 30ms / 115VAC at full load						
INPUT	VOLTAGE RANGE	100 ~ 240VAC					
	FREQUENCY RANGE	47~63Hz					
	POWER FACTOR	PF>0.95/230VAC PF>0.99/115VAC at full load PF≥0.9 at 75 ~ 100% load, 115VAC / 230VAC					
	EFFICIENCY(Typ.)	88%	89%	89%	89%	87%	87%
	AC CURRENT(at full load)	0.65A / 115VAC 0.35A / 230VAC					
	INRUSH CURRENT (max.)	COLD START 65A/230VAC					
	LEAKAGE CURRENT	<2mA / 240VAC					
PROTECT ON	OVER CURRENT	95 ~ 108%					
	SHORT CIRCUIT	Protection type : Constant current limiting, recovers automatically after fault condition is removed					
	OVER VOLTAGE	100~120V	75~90V	52~63V	45~54V	34~45V	30~36V
		Protection type : Shut down o/p voltage, re-power on to recover					
	OVER TEMPERATURE	Tj 140°C typically(IC02) Detect on main control IC					
	Protection type : Shut down o/p voltage, recovers automatically after temperature goes down						

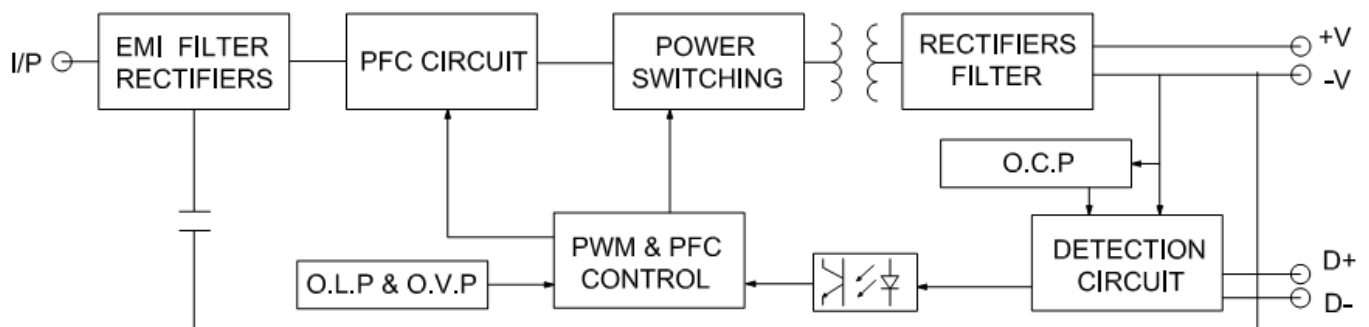
ENVIRONMENT	WORKING TEMP.	-30 ~ +60°C @ full load ; +90°C @ 60% load
	WORKING HUMIDITY	20~95% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40~80°C, 10~95% RH
	TEMP.COEFFICIENT	±0.03%/°C (0~50°C)
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
SAFETY & EMC	SAFETY STANDARDS	Design refer to EN61347-1,EN61347-2-13,meet IP67
	WITHSTAND VOLTAGE	I/P-O/P:3.0KVAC (I/P-FG:1.5KVAC)
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25~70% RH
	EMC	Design refer to EN55015,EN61000-3-2,EN61000-3-3,EN61547
MTBF		≥400K Hours (25°C)
DIMENSION		168*44*34mm (L*W*H)

● MECHANICAL SPECIFICATION

NOTE:AC Input line can be increased FG (GREEN & YELLOW) line

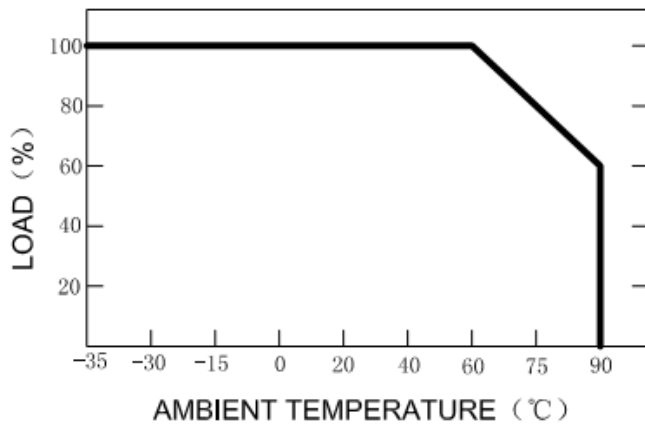


● BLOCK DIAGRAM

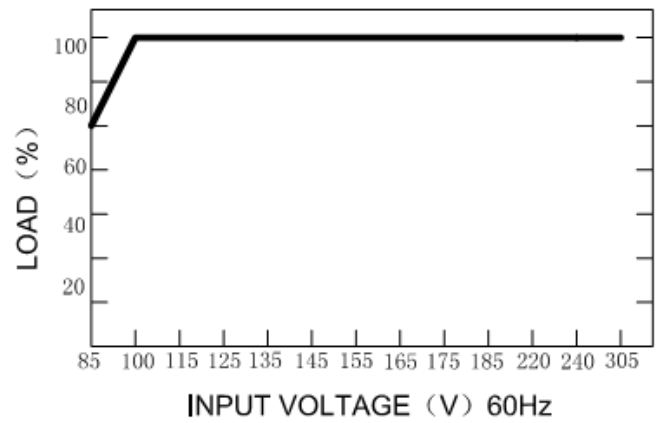


● CHARACTERISTIC DIAGRAM

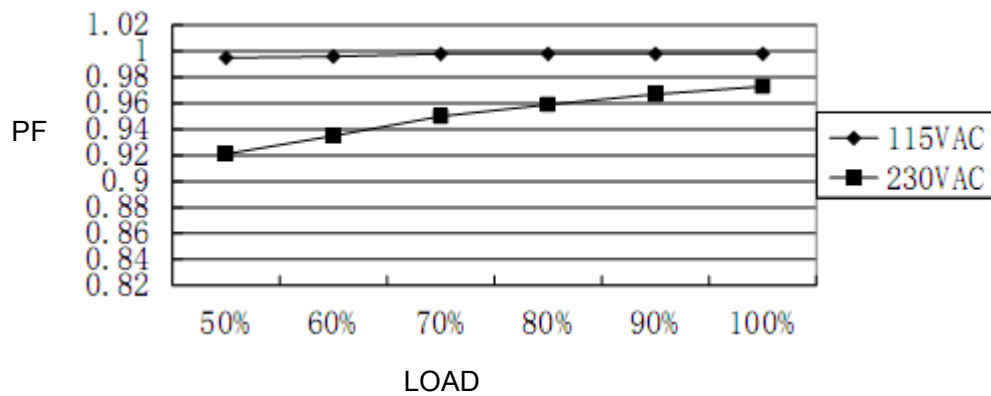
LOAD & TEMPERATURE FEATURE



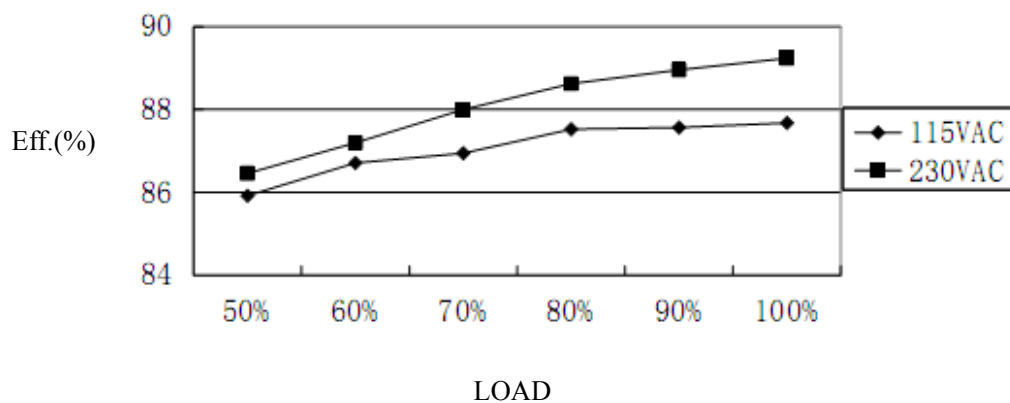
LOAD & AC INPUT VOLTAGE



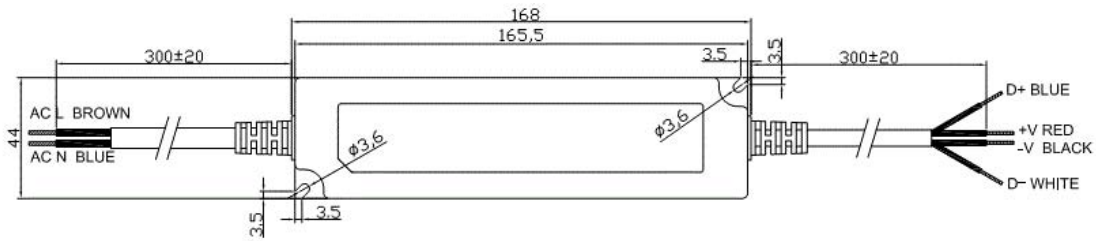
LOAD & POWER FACTOR (IS 60DP-1400)



LOAD & EFFICIENCY (IS 60DP-1400)



● DIMMER OPERATION



NOTE: Connected a resistor or 0~10V DC voltage or 10V PWM signal between D+ and D-, LED Driver can output constant current.

Adjust the value of the resistance value (Typical value)

Resistor value	0KΩ	10K Ω	20K	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90K Ω	100K	OPEN
LED current	3%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%

0~10V DC voltage (Typical value)

0~10V	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
LED current	3%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%

10V PWM signal (Typical value)

Frequency range: >100Hz

PWM signal	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
LED current	3%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%