

NEW

□ FEATURES

- 3 Optional dimming(0-10V / PWM / Resistance)
- Universal AC input/Full range(100-277VAC)
- Protections: Short circuit / Overload / Over voltage
- 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

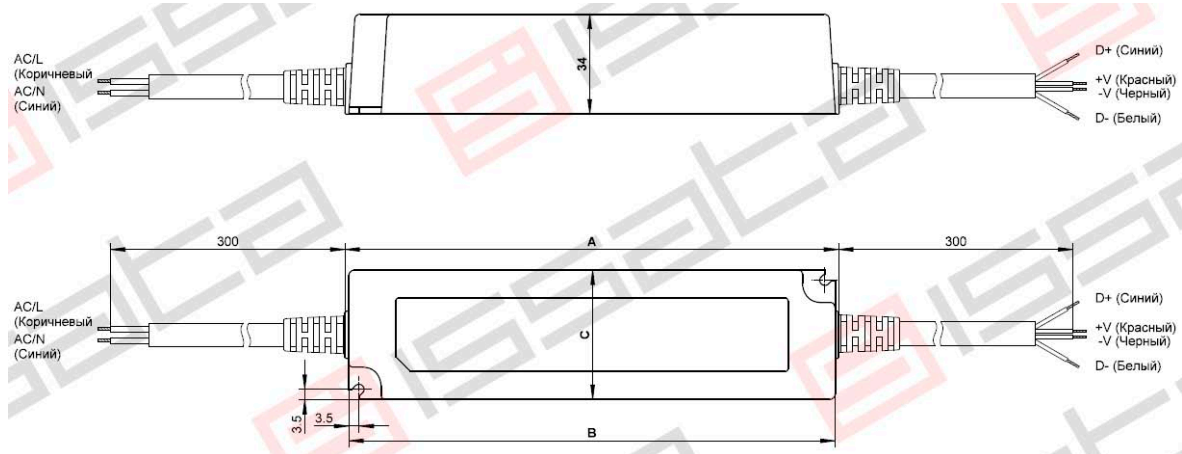
□ SPECIFICATION

MODEL		IS 40DP -350	IS 40DP -700	IS 40DP -1050	IS 40DP -1400	IS 40DP -1750
OUTPUT	DC VOLTAGE	120V	60V	40V	30V	24V
	CONSTANT CURRENT REGION	72~120V	36~60V	24~40V	18~30V	15~24V
	RATED CURRENT	350mA	700mA	1050mA	1400mA	1750mA
	RATED POWER	42W	42W	42W	42W	42W
	RIPPLE & NOISE (max.)	5Vp-p	3Vp-p	3Vp-p	2Vp-p	2Vp-p
	CURRENT RIPPLE	<15%	<15%	<15%	<20%	<20%
	VOLTAGE TOLERANCE	±3.0%			±2.0%	
	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 - 277VAC				
	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%	88%	88%	87%	86%
	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	Hiccup mode, recovers automatically after fault condition is removed				
		150~180V	75~90V	50~60V	37.5~45V	30~36V
Protection type : Shut down o/p voltage, Hiccup mode,auto recovery						

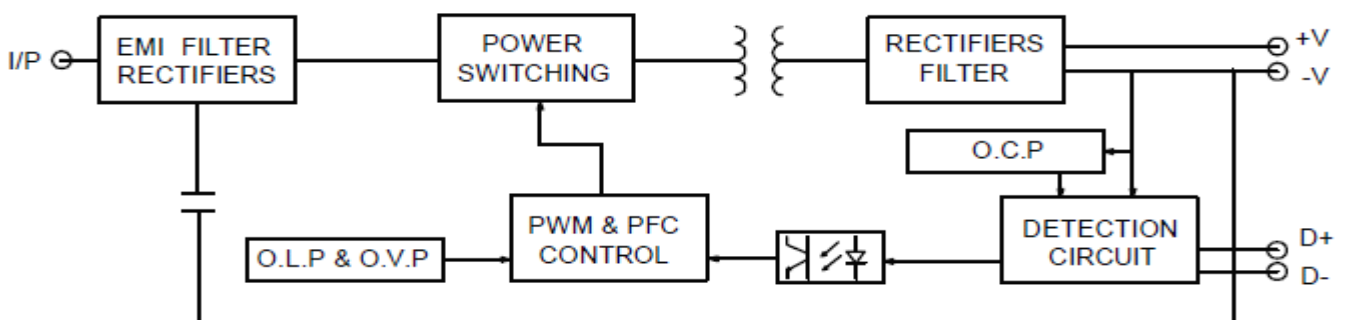
ENVIRONMENT	WORKING TEMP.	-30 ~ +60°C @ full load ; +90°C @ 60% load
	WORKING HUMIDITY	20~95% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40~80°C, 10~95% RH
	TEMP.COEFFICIENT	±0.03%/°C (0~50°C)
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
SAFETY & EMC	SAFETY STANDARDS	Design refer to EN61347-1,EN61347-2-13,meet IP67
	WITHSTAND VOLTAGE	I/P-O/P:3.0KVAC
	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		≥400KHours (25°C)
DIMENSION		A(150)*C(43)*34mm (L*W*H)

MECHANICAL SP97 = 75 H-C

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

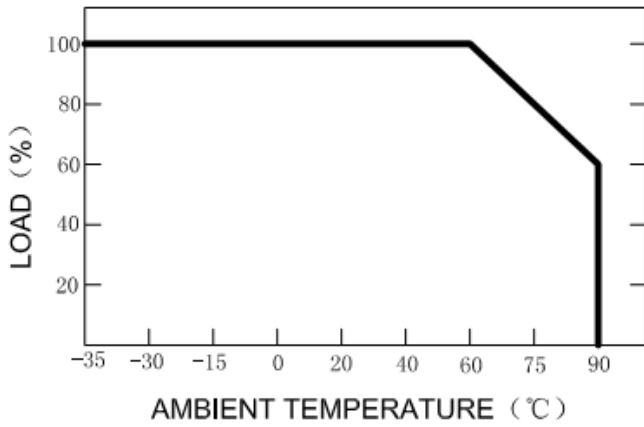


BLOCK DIAGRAM

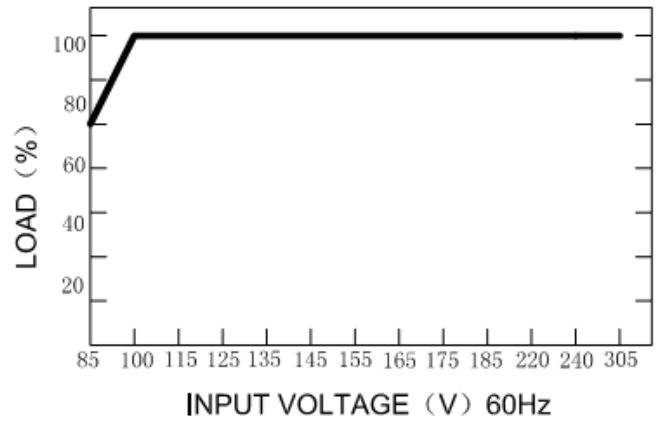


● **CHARACTERISTIC DIAGRAM**

LOAD & TEMPERATURE FEATURE



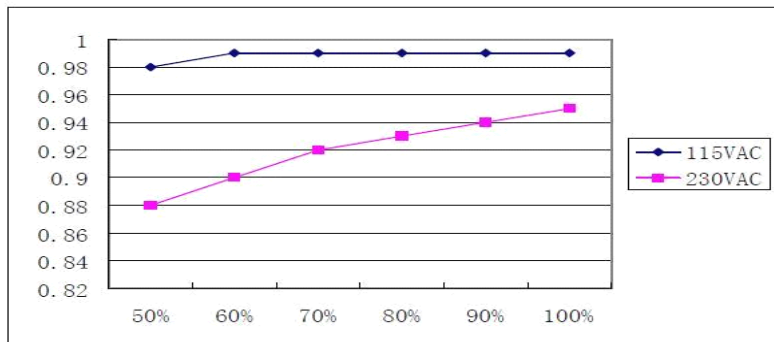
LOAD & AC INPUT VOLTAGE



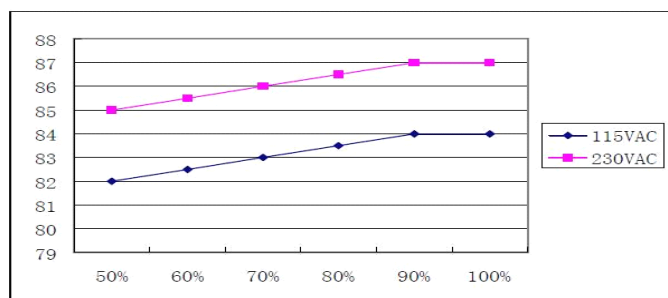
LOAD & POWER FACTOR

PF

LOAD & EFFICIENCY

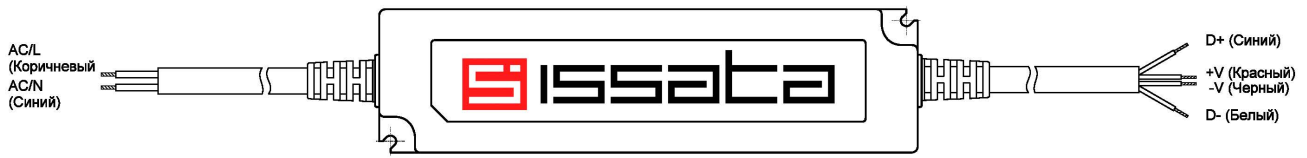


Eff.(%)



LOAD

● **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	0	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90K Ω	100K Ω	OPEN
LED current	0%	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	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%

10V PWM signal (Typical value)

Frequency range: >10KHz

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