

ARPJ-DIM301400-R (42W, 1400mA, 0-10V)



FEATURES:

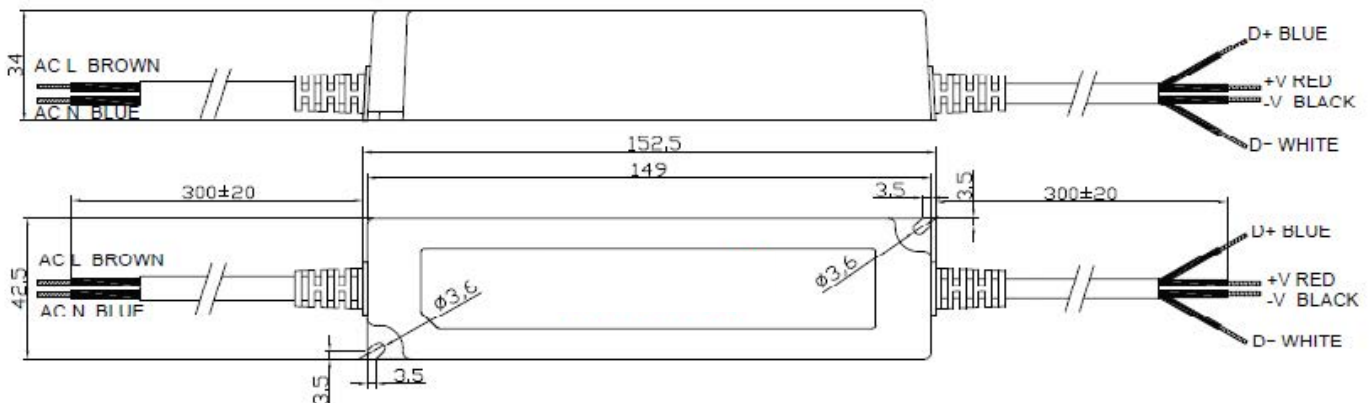
- 3 Optional dimming (0-10V / PWM / Resistance)
- Universal AC input/Full range(100-277VAC)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built_in active PFC function
- Fully encapsulated with IP65 level
- UL60950 Class 2 power unit, pass LPS
- Cooling by free air convection
- 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
- 2 years warranty

PARAMETERS:

OUTPUT	DC VOLTAGE	30V
	RATED CURRENT	1400mA
	CONSTANT CURRENT REGION	18~30V
	RATED POWER	42W
	RIPPLE&NOISE(MAX)	2Vp-p
	CURRENT RIPPLE	<20%
	VOLTAGE TOLERANCE	±2%
	LINE REGULATION	±1%
	LOAD REGULATION	±2%
	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)	87%
	AC CURRENT	0.65A / 115VAC 0.35A / 230VAC
	INRUSH CURRENT(MAX)	Cold-start current 65A/230V
	LEAKAGE CURRENT	<2mA/240VAC
PROTECTION	OVER CURRENT	95-108% Protection type: Hiccup model,recovers automatically after fault condition is removed
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed
	OVER VOLTAGE	37.5~45V Protection type : Shut down o/p voltage, re-power on to recover
	OVER TEMPERATURE	Tj 140°C typically(IC1) Detect on main control IC
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down

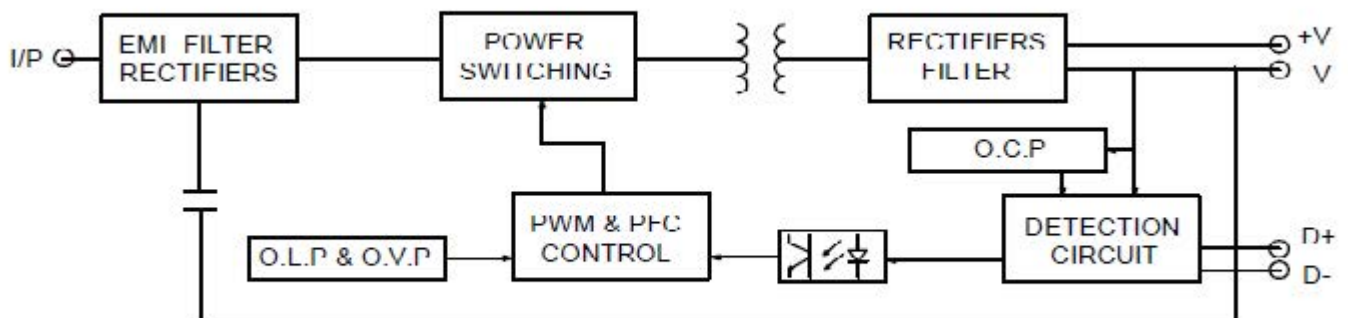
ENVIRONMENT	WORKING TEMP.	-30°C ~ +60°C @ full load ; +90°C @ 60% load
	WORKING HUMIDITY	20% ~ 95%RH non-condensing
	STORAGE TMP.,HUMIDITY	-40°C ~ +80°C, 10-95%RH
	TEMP.COEFFICIENT	±0.03%/°C(0-50°C)
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
SAFETY EMC	SAFETY STANDARDS	Design refer to UL1310 Class 2,TUV EN60950-1, EN61347-2-13, CAN/CSA C22.2 No. 223-M91, meet IP65
	WITHSTAND VOLTAGE	I/P-O/P;3KVAC
	ISOLATION RESISTANCE	I/P-O/PI: > 100M Ohms/500VDC/25~70%RH
	EMI CONDUCTION & RADIATION	Compliance to EN55015, EN55022 (CISPR22) Class B
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C (≥75% load) ; EN61000-3-3
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN61547, light industry level , criteria A
OTHERS	MTBF	≥400KHours (25°C)
	DIMENSION	150*43*34mm (L*W*H))

MECHANICAL SPECIFICATION:



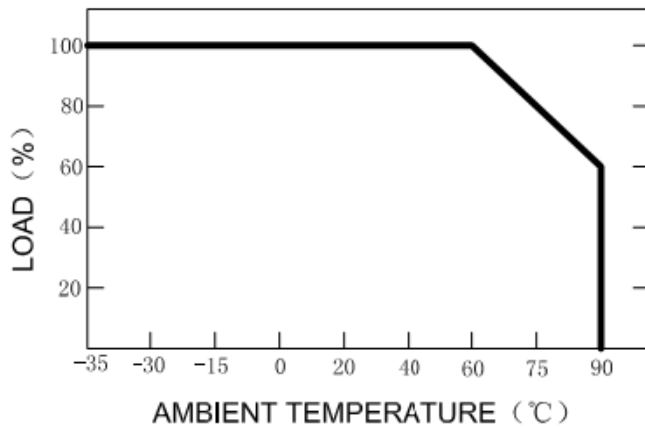
Note: AC Input line can be increased FG (GREEN & YELLOW) line

BLOCK DIAGRAM

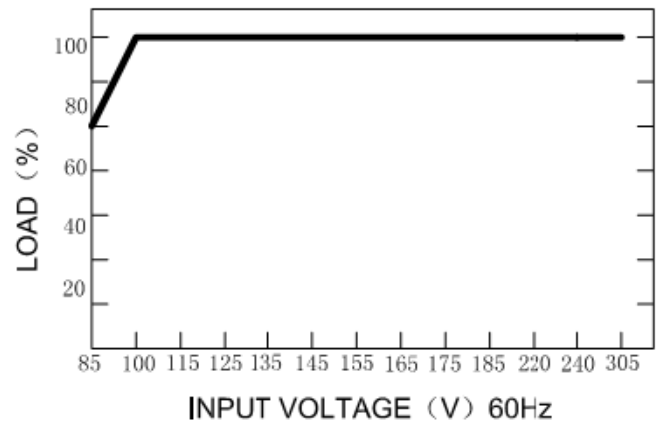


CHARACTERISTIC DIAGRAM:

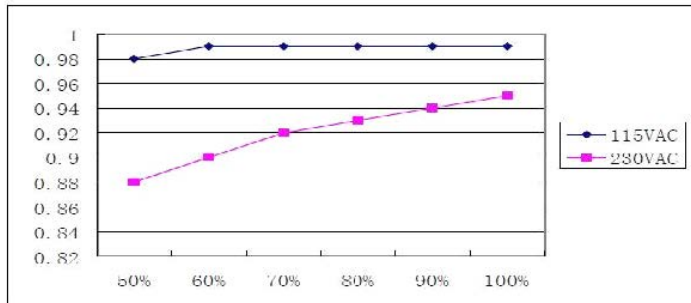
● LOAD & TEMPERATURE FEATURE



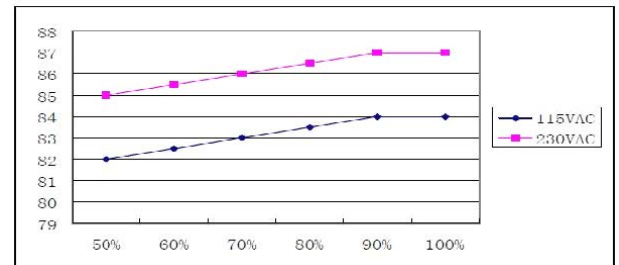
● LOAD & AC INPUT VOLTAGE



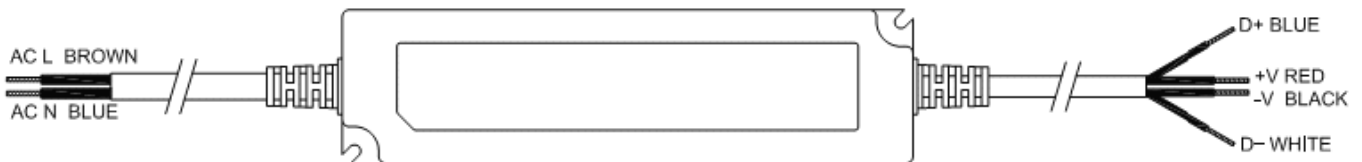
● LOAD & POWER FACTOR



● LOAD & EFFICIENCY



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	10kΩ	20kΩ	30kΩ	40kΩ	50kΩ	60kΩ	70kΩ	80kΩ	90kΩ	100kΩ	Open
LED current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%

0~10V DC voltage (Typical value)

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

10V PWM signal (Typical value)

Frequency range: >10kHz

0~10V	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	Open
LED current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%