



● **Features**

- ✓ Plastic case waterproof design
- ✓ IP67 waterproof level
- ✓ Working temp-30~+70°C (refer to output derating curve)
- ✓ Protection: Short circuit /Over load /over voltage/over temperature
- ✓ 100% pass high temperature aging test
- ✓ 2 years warranty

● **Applications**

LED-based decorative/architectural lighting,LED stage ,theater lighting and LED electronic displays

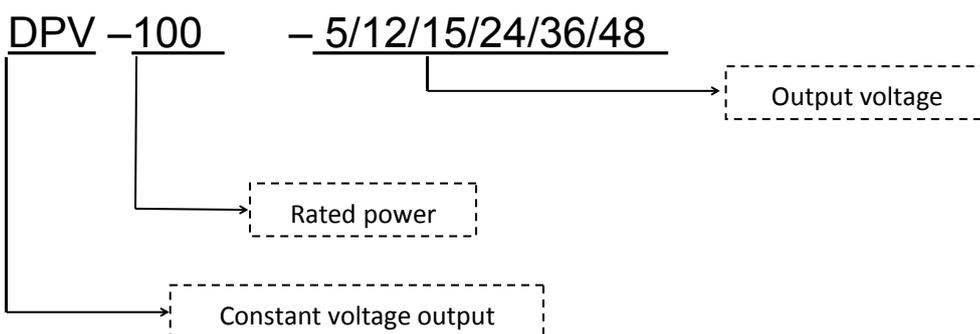
● **Reference standard**

EN61547\EN61000-4-2,3,4,5,6,8,11\ GB17625.1\EN61000-3-2\EN61000-3-3\ EN55015\GB17743\ GB19150.1\14\EN61347-1, -2-13\EN62384\UL8750

● **Product description**

DPV-100 series is 100W IP67 plastic case LED driver,input voltage range: 90~264VAC, output voltage 5V、12V、15V、24V、36V、48V etc,which is suitable for LED-based decorative/architectural lighting,LED stage ,theater lighting and LED electronic displays.Plastic case waterproof design, ultra-high efficiency, compact case, good heat dissipation, to ensure the long-term stable work of this series of products.

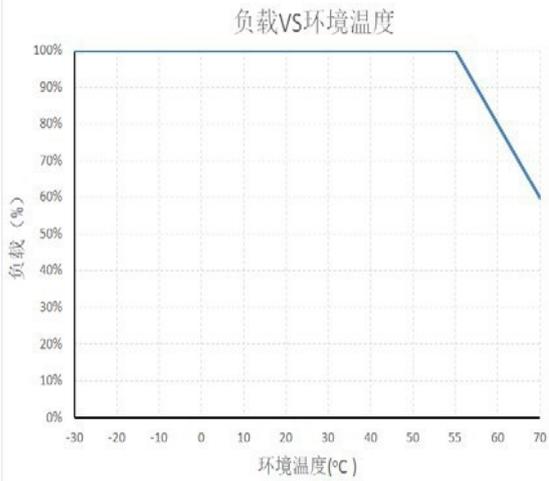
● **Product name**



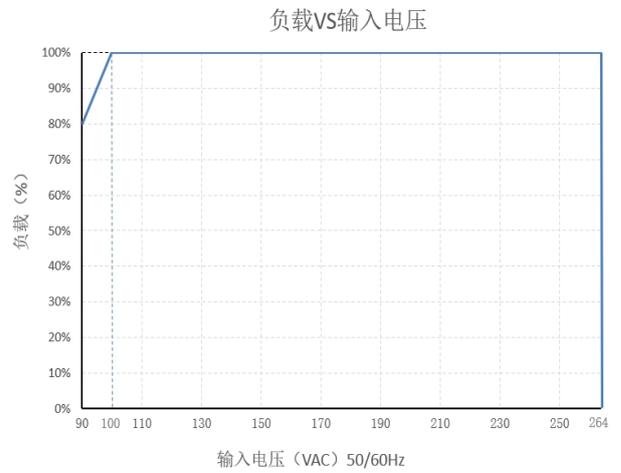
● General Specification

Model		DPV-100-5	DPV-100-12	DPV-100-15	DPV-100-24	DPV-100-36	DPV-100-48
Input	Voltage range	90~264VAC					
	Current	115VAC/2.2A; 230VAC/1.2A					
	Efficiency (Typ)	≥83.5%	≥86.5%	≥87.5%	≥88.0%	≥88.0%	≥89%
	Frequency range	47~63HZ					
	Leakage current	<1mA/240VAC					
	Inrush current	75A/230VAC (Input 230Vac/50Hz, under 50% I _{peak} testing, t _{width} =1000us, power supply start-up in cold state)					
	Max qty of PSUs on 16A circuit breaker	2 units(circuit breaker of type B)/4 units(circuit breaker of type C) at 230VAC					
	No-load/standby loss	<0.5W					
Output	DC voltage	5V	12V	15V	24V	36V	48V
	Rated current	12A	8.4A	6.7A	4.2A	2.8A	2.1A
	Power	60W	100.8W	100.5W	100.8W	100.8W	100.8W
	Voltage adjust range	/	/	/	/	/	/
	Ripple and noise	≤80mVp-p	≤120mVp-p	120mVp-p	150mVp-p	150mVp-p	150mVp-p
	Set up, rise time time	1000ms/50ms (230VAC load 100%), 2000ms/50ms (115VAC load 100%)(-24V) 1000ms/100ms (230VAC load 100%), 2000ms/100ms (115VAC load 100%)(36-48V);					
	Hold up time	50ms/ (230VAC) load 100%; 15ms/ (115VAC) load 100%;					
	Line regulation	±1%	±1%	±1%	±1%	±1%	±1%
	Load regulation	±6%	±2%	±2%	±2%	±2%	±2%
	Output Voltage	±8%	±5%	±5%	±5%	±5%	±5%
EMC	Electromagnetic tolerance	Design refer to EN61547;EN61000-4-2,3,4,5,6,8,11;					
	Harmonic current	Design refer to GB17625.1;EN61000-3-2 ,EN61000-3-3					
	EMI	Design refer to EN55015,GB17743 class B					
Safety	Safety specification	Design refer to GB19150.1;14/EN61347-1;-2-13/IP67					
	Withstand voltage	I/P-O/P:3KVac/10mA, testing time is 1min					
	Insulation impedance	I/P-O/P:100M ohms;					
Protections	Over voltage	115-160%, shut down o/p voltage, re-power on to recover					
	Over load	105~185% of rated output power, hiccup mode, recovers automatically after fault condition is removed					
	Over temperature	Automatic recover after the temperature cooling down					
	Short circuit	Protection when output short circuit, recovers automatically after fault condition is removed					
Environment	Working temperature and humidity	-30~70°C (refer to derating curve) , 20%~95%RH no condensing					
	Storage temperature and humidity	-40°C~80°C; 10%~95%RH no condensing					
	Vibration	Frequency range 10 ~ 500Hz, acceleration 5G, Each sweep cycle 10min. 6 sweep cycles along X, Y and Z axes					
	Shock	Acceleration 20G, Duration 11ms, 3 shocks along X, Y and Z axes					
	Altitude	2000mtrs (for every 100 m higher than 2000 m, the ambient temperature decreases by 0.6°C)					
	Warranty	2 years					
	IP Level	IP67					
Reliability	MTBF	25°C:200000Hrs, MIL-217 Method					
Others	Size	192.4×52.1×37 mm (L×W×H)					
	Packing	0.58kgs/pc, 30 pcs/ctn, 18kgs/ctn					
	Cooling method	<input checked="" type="checkbox"/> free air cooling <input type="checkbox"/> fan					
Remarks	<ul style="list-style-type: none"> ❖ In order to extend the lifetime, it is recommended to configure the load more than 20% of the remaining allowance. For example: the power of the device requires 100W, then use the power of not less than 120W. ❖ Ripple test method at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. ❖ All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ❖ The power supply is considered as a component that will be operated in combination with final equipment. All EMC tests are carried out by installing the sample on the metal plate. The power supply should be combined with the terminal equipment for EMC test. 						

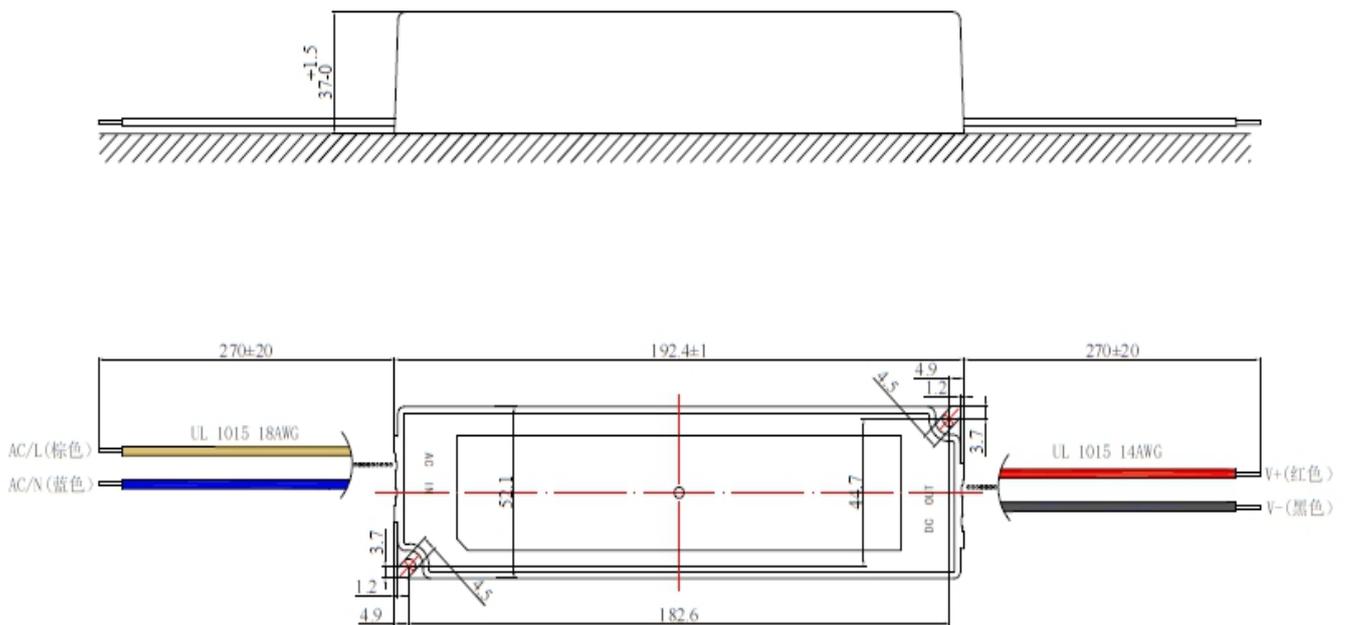
● Load and temperature curve



● Static characteristic curve



● Install drawing



● Use instructions:

- 1、 please follow the installation instructions when use the power supply.
- 2、 Before power on test run after installation, please check and proofread the wiring on each terminal, make sure that the input and output, AC and DC, positive and negative, voltage and current values are correct, prevent the occurrence of wrong connection, and avoid damaging the power supply and user equipment.
- 3、 Before power on, please use a multimeter to measure whether the live wire, zero wire and ground wire are short circuited, and whether the output terminal is short circuited; it is better to start without load when power on.
- 4、 Do not exceed the nominal value of the power supply when using, so as not to affect the reliability of the product. If you need to change the output parameters of the power supply, please consult our technical department before using.
- 5、 In order to ensure the safety of use and reduce interference, please ensure that the grounding terminal is reliably grounded (ground wire please thicker than AWG18#) .
- 6、 If the power supply fails, please do not repair it without permission. Please contact our customer service department as soon as possible, customer service line: 86-519-85215050.

● Transport、 storage:

1、 Transport:

The package is suitable for shipping by automobiles, ships, airs, trains, etc. During transportation, it shall be rain proof,loaded and unloaded gently。

2、 Storage:

When the product is not in use, it shall be placed in the packing box. The storage environment temperature and relative humidity shall meet the requirements of the product. No corrosive gas or product in the warehouse, and no strong mechanical vibration, impact and strong magnetic field. The packing box shall be padded at least 20cm above the ground, and not be soaked. If the storage time is too long (more than 1 year), it shall be rechecked by professionals before use.