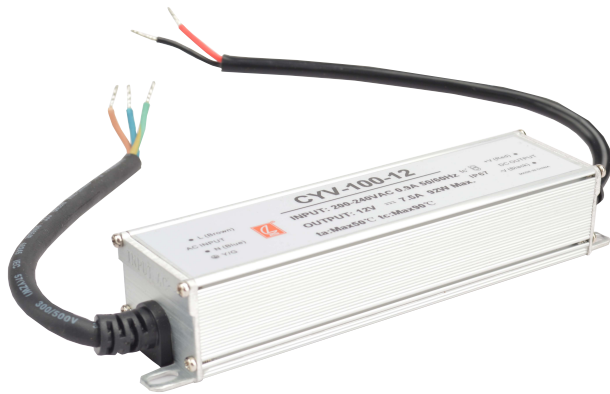




● Features

- ✓ Input voltage 176~264VAC
- ✓ IP67 Level
- ✓ -40~+70℃ working temperature(refer to derating curve)
- ✓ Lightning Protection: Line to Line 2KV, Line to Ground 4KV
- ✓ Protections:Short circuit/Over load
- ✓ 2 years warranty

- **Application:**Outdoor lighting,Architectural lighting,Decorative lighting,Sign light,and Street lights, etc.

- **Approvals:**



- **Standard:**

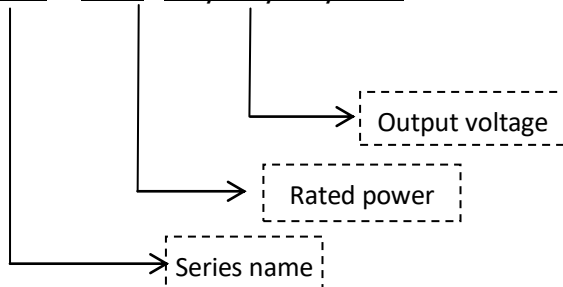
EN61547\EN61000-4-2,3,4,5,6,8,11\ GB17625.1\EN61000-3-2\EN61000-3-3\EN55015\GB17743\GB19510.1\14/EN61347-1, -2-13

- **Product Description:**

CYV-100 series is 100W waterproof power supply with IP67 high protection level.The input voltage ranges are from 176 to 264Vac.This series of products are designed for high temperature resistance.The working temperature of full load can reach as high as 50 ℃.It is specially designed for outdoor lighting, indoor and outdoor lighting,and street lamps.Super high efficiency,compact shell design,good heat dissipation,and all-round protection ensure the long-term stability of this series of products.

- **Product name**

CYV - 100 -12/24/36/48



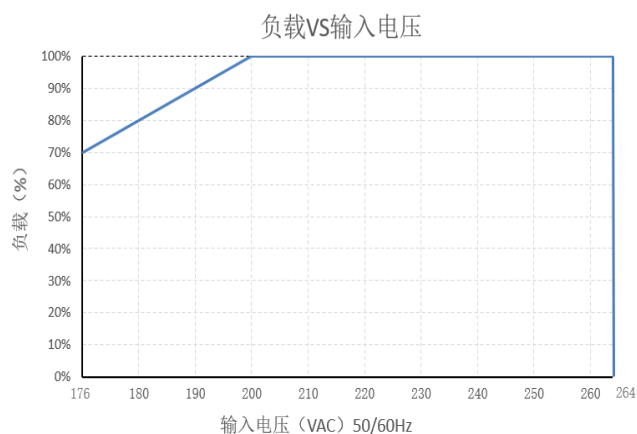
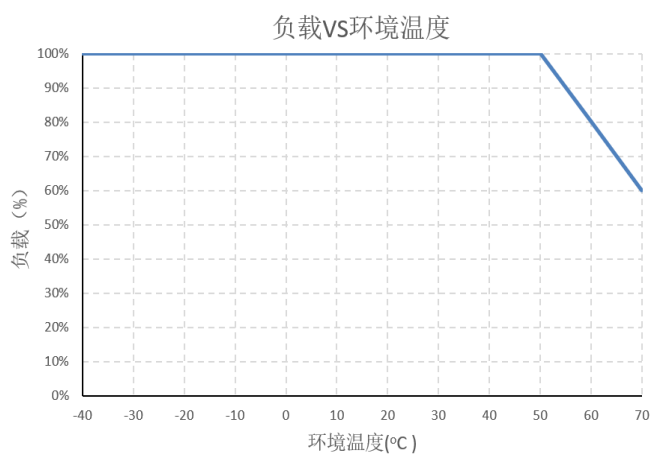
● Electrical parameters

Model		CYV-100-12	CYV-100-24	CYV-100-36	CYV-100-48
Input	Voltage range	176~264VAC			
	Current	230VAC/1.0A			
	Frequency	≥90%	≥91%	≥92%	≥92%
	Frequency range	47~63HZ			
	Leakage current	<0.75mA/240VAC			
	Inrush current	50A/230VAC (Input 230Vac/50Hz, under 50% I _{peak} testing, t _{width} =800us, power supply start-up in cold state)			
	No-load/standby loss	<1W			
Output	DC voltage	12V	24V	36V	48V
	Rated current	7.5A	3.8A	2.56A	2.1A
	Power	92W	91.2W	92W	100.8W
	Voltage adjust range	Not adjustable	Not adjustable	Not adjustable	Not adjustable
	Ripple and noise	≤600mVp-p	≤800mVp-p	≤800mVp-p	≤1500mVp-p
	Start up time	1500ms/100ms (230VAC 100% at full load)			
	Hold up time	8ms/ (230VAC) 100% at full load			
	Linear adjustment rate	±2%	±2%	±2%	±2%
	Load adjustment rate	±2%	±2%	±2%	±2%
	Output Voltage Accuracy	±4%	±4%	±4%	±4%
	Electromagnetic tolerance	Compliance to:EN61547;EN61000-4-2,3,4,5,6,8,11; (surge immunity Line-Earth 4KV, Line-Line 2KV)			
EMC	Harmonic current	Compliance to:GB17625.1;EN61000-3-2 Class A, EN61000-3-3			
	EMI	Compliance to:EN55015, GB17743			
	Safety specification	Compliance to:GB19510.1, .14/EN61347-1, -2-13/IP67			
Safety	Withstand voltage	I/P-O/P:3KVac/10mA;I/P-CASE:1.5KVac/10mA; O/P-CASE:0.5KVac/10mA 1min for each test			
	Insulation impedance	I/P-O/P:100M ohms; I/P-Case:100M ohms; O/P-Case:100M ohms			
	Over voltage	/			
Protections	Over load	115~170% load(CC limit),After eliminating overload, normal work can be automatically restored.			
	Over temperature	/			
	Short circuit	Power supply protection after output short circuit can automatically restore output after eliminating short circuit			
	Working temperature and humidity	Ta=-40~70℃/TC=-40~90℃ (refer to derating curve) , 20%~95%RH no condensing			
Environment	Storage temperature and humidity	-40℃~80℃; 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	/			
	Warranty	2 years(refer to lifetime diagram)			
	IP Level	IP67			
	Reliability	MTBF 25℃:250000Hrs, MIL-217 Method			
Other requirements	Size	152*37.5*31mm (L*W*H)			
	Package	0.40Kg/pcs,60pcs/carton, 15.5KG/carton			
	Cooling mode	☒ Free air ☐ Fan			

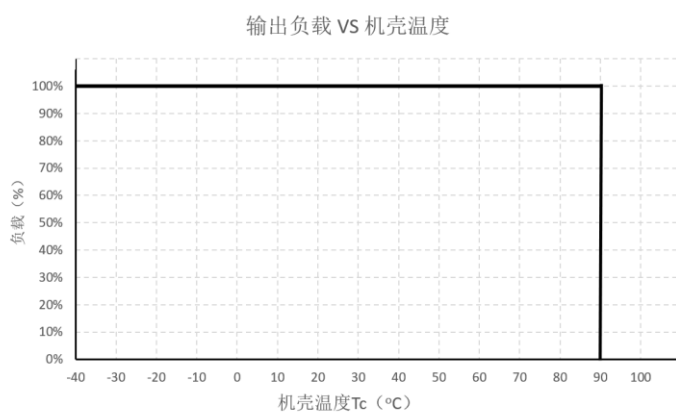
Remarks	*In order to prolong the service life, it is recommended to leave 20% more allowance when configuring the load. For example, if the equipment needs 100W power, the power supply should be not less than 120W. *The ripple test method of switching power supply: 20 MHz oscilloscope is used to test the output terminal of power supply. The length of ground wire of oscilloscope probe is not more than 12 mm, and 47 uF electrolytic capacitor and 0.1 uF high frequency capacitor are input into the probe. *All electrical performance tests are performed at 25 C.
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● Load and temperature curve

Output Load to Input Voltage

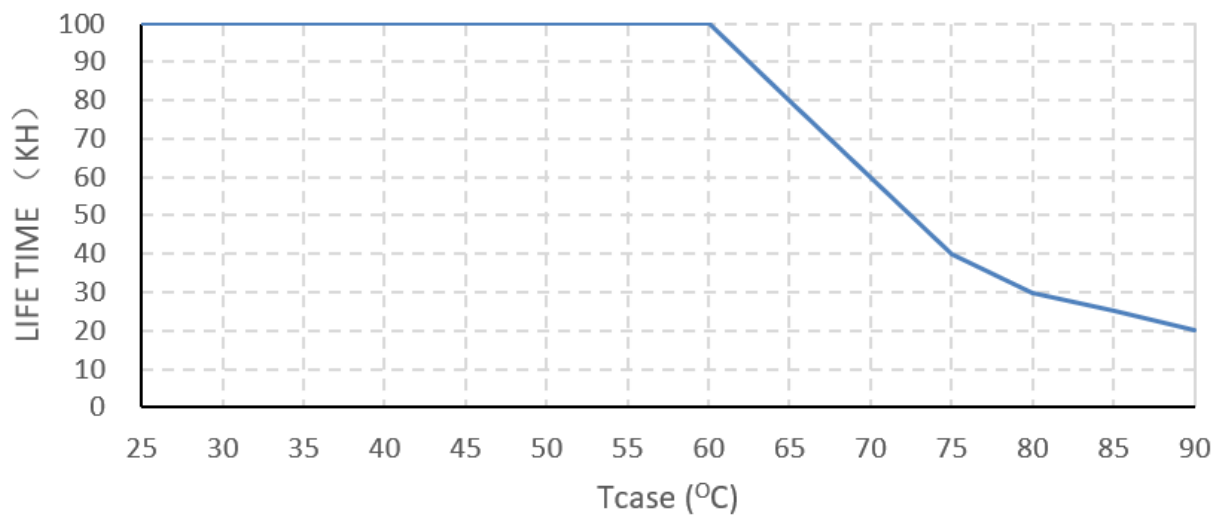


● Output load to shell temperature

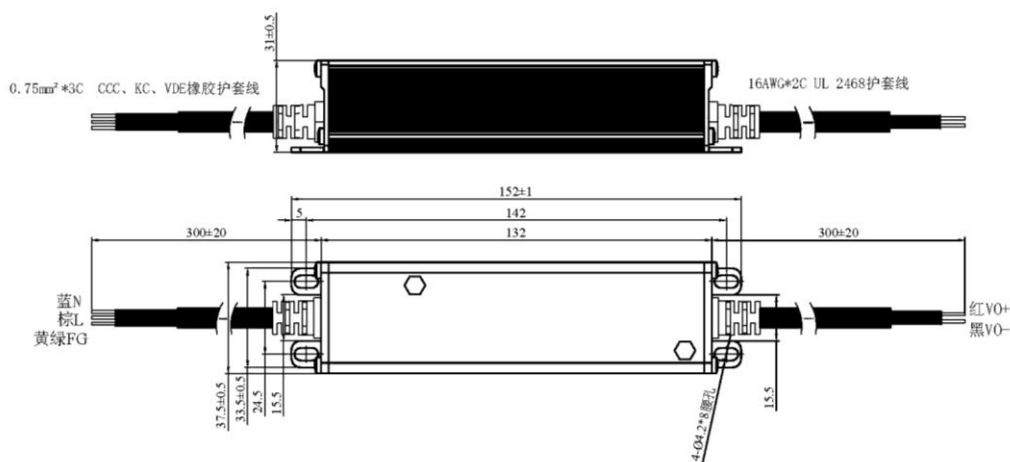


● LIFETIME

LIFE TIME VS Tcase



● 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.