Features:

- Wide input 90-305Vac(Class I)
- IP67 level
- -40℃-+70℃ working temperature(refer to derating curve)
- Surge Protection: Line to Line 4KV, Line to Ground 6KV
- Short circuit/Over load/Over voltage/Over temperature
- Three in one dimming function (dimming
- can be turned off, isolation design)
- 5 years warranty

Application：Industrial control system,machinery and electrical equipment, electronic instruments, industrial automation, household appliances, etc.

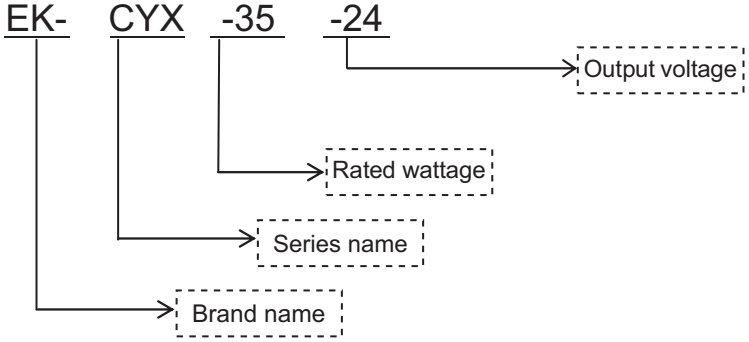
Approval:

Product description :

EK-CYX-35-24P

series is 35W waterproof power supply with IP67 high protection level, output constant current, input voltage 90~305VAC, with super high power factor and super low THD, It supports three-in-one dimming. The working temperature of full load can reach as high as 60℃. It is specially designed for outdoor lighting, indoor and outdoor lighting, mining lamps, high pole lamps, stadium lamps 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.

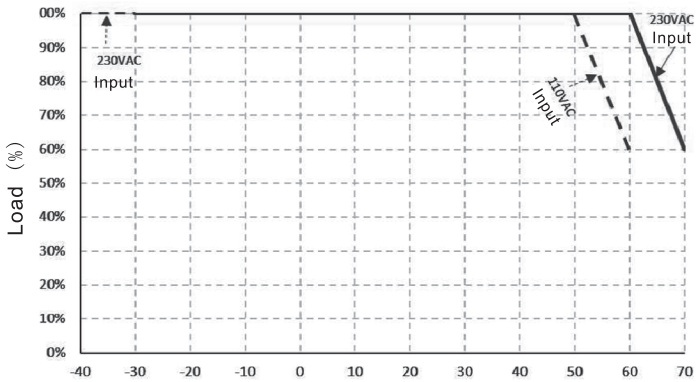
Mode Encoding



SPECIFICATION

Model		EK-CYX-35-24P
Input	Voltage/Frequency range	90~305VAC / 47~63HZ
	Efficiency	88%
	Input current	115VAC/0.4A，230VAC/0.2A，277VAC/0.18A
	Leakage current	<0.75mA/277VAC
	Inrush current	40A/220VAC (Input 230VAC/50Hz, under 50% Ipeak testing, twidth=300us, power supply start-up in cold state)
	Max qty of Circuit Breakers	Use 16A breaker, input 230VAC on the same model power supply, 8 units (circuit breaker of type B) / 11 units (circuit breaker of type C)
	PF	PF⩾0.98/110VAC full load, PF≥0.98/230VAC full load, or PF≥0.95/277VAC full load PF≥0.94 (≥50% Load 110VAC/230VAC; ≥75% Load @ 277VAC)
	THD	THD<10% (⩾50% Load @ 110VAC / 230VAC ; ≥75% Load @ 277VAC)
	No-load/standby loss	<0.5W (Dimming models could dimming to turn off output)
Output	DC voltage	24V
	Rated current	1.46A
	Voltage adjust range	no
	Rated current	≤250mVp-p
	Ripple and noise	500ms/100ms (220VAC@ full load) ,1000ms/100ms (110VAC 80% load)
	Start up time	8ms/（220VAC) @ full load
	Hold up time	±0.5%
	Linear adjustment rate	±2%
	Load adjustment rate	±3%
EMC	Electromagnetic tolerance	Design refer to:EN61547; EN61000-4-2,3,4,5,6,8,11; (surge immunity Line-Earth 6KV, Line-Line 4KV)
	Harmonic current	Design refer to:GB17625.1; EN61000-3-2 Class C，EN61000-3-3
	EMI	Design refer to:EN55015，GB17743
Safety	Safety specification	Design refer to: GB19510.1，.14 / EN61347-1，-2-13/EN62384 / UL8750 / IP67
	Withstand voltage	I/P-O/P:3.75KVac/10mA; I/P-CASE: 2KVac/10mA; O/P-CASE:1.5KVac / 10mA Each testing time: 1min
	Insulation impedance	I/P-O/P: 100M ohms; I/P-Case: 100M ohms; O/P-Case: 100M ohms
Protections	Over voltage	120~140% output voltage over limit, shut off output voltage, recovery after re-start
	Over load	110~150% load hiccup mode, auto recovery after over load removed
	Over temperature	Shut off output voltage, recovery after re-start
	Short circuit	Hiccup mode, recovers automatically after fault condition removed
Environment	Working condition	Ta=-40~70°C / Tc=-40~90°C , 20%~95% RH no condensing
	Storage condition	-40℃~ 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, Yand Z axes
	Elevation	/
	Warranty	5 years
	IP level	IP67
Reliability	MTBF	25°C environment temperature:250000Hrs, MIL-217 Method
Other requirements	Size	110*58*32.5mm (L*W*H)
	Package	0.4Kg/pc, 36pcs/ctn，9KG/ctn
	Cooling method	☑ Free air ☐ Fan
Remarks	*As not specifically stated, all parameters were measured at input voltage 230 VAC, rated current and environment temperature under 25°C. *For longer service life, 20% extra margin is recommended when configuring the load. For example: equipment requires 100W, then choose a power supply no 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.	

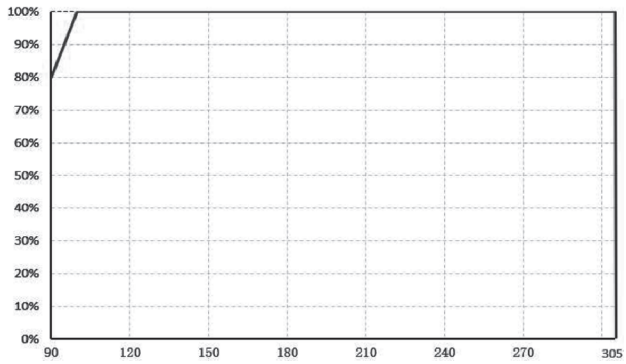
- **Load to Temperature Curve**



Temperature (°C)

Load VS Ambient Temperature

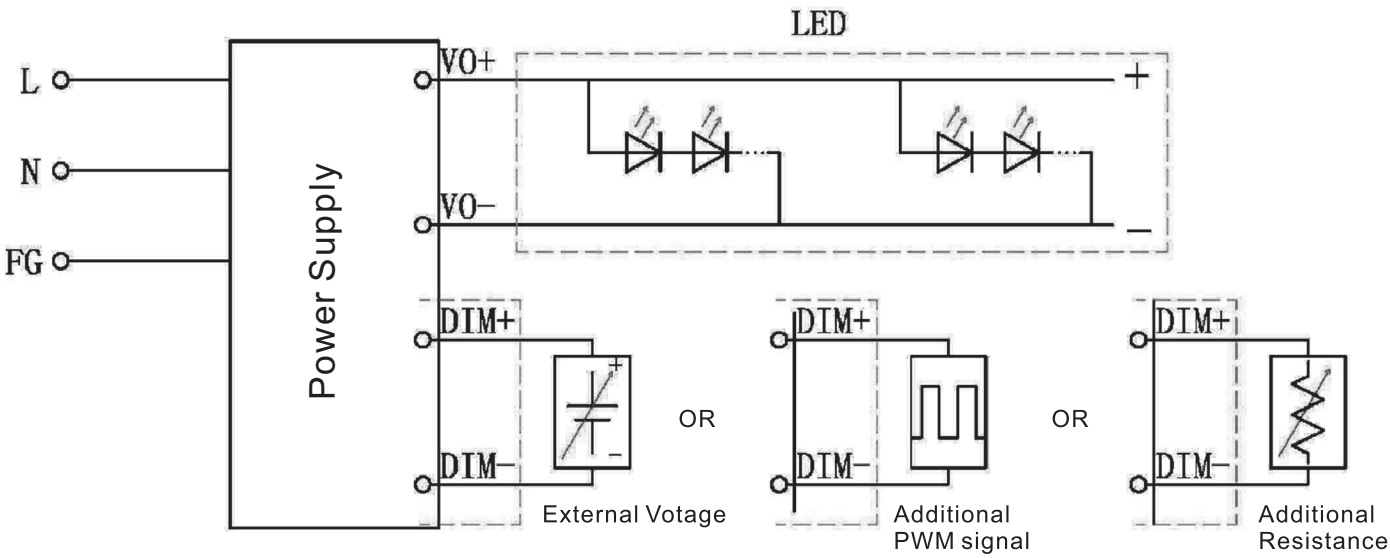
- **Output Load to Input Voltage**



Input Voltage (VAC) 50/60Hz

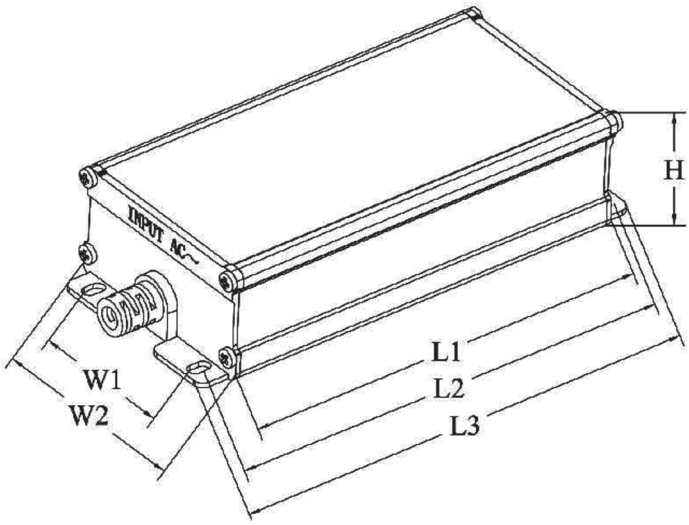
Load VS Input Voltage

- **Below is Installation sketch :**



Mechanism size and wire materials

Remarks：
Overall size L3×W2×H：110×58×32.5mm
Shell length L1 : 94mm
Installation hole width W1: 44mm
Installation hole length L2: 101mm



Product installation and Instructions:

1、When installing, please follow the mechanical size and installation method.
2、Before commissioning, please check and proofread the connections on the terminals to make sure that the input and output, AC and DC, positive and negative poles, voltage and current values are correct, to prevent the occurrence of reverse connection errors and to avoid damage to power supply and user equipment.
3、Please use the multimeter to measure whether the fire line, zero line and ground line are short-circuited and whether the output terminal is short-circuited before power is turned on.
4、Do not exceed the nominal value of the power supply in use, so as to avoid affecting the reliability of the product. If you need to change the output parameters of the power supply, please consult the technical department of our company before using the power supply to ensure the effectiveness and reliability of the use.
5、To ensure safety and reduce interference, ensure reliable grounding of grounding end (grounding wire>AWG18#).
6、If the power supply fails, please do not repair it without authorization. Please contact our customer service department as soon as possible. Customer service line: + 55 21 3553-4736

Transport and storage:

1、Transport:

This packing is suitable for transportation of automobiles, ships, airplanes and trains. It should be rainproof and handled civilly during transportation.

2、Storage:

When the product is not in use, it should be placed in the packing box. The storage environment temperature and relative humidity should meet the requirements of the product. There should be no corrosive gas or products in the warehouse, and there should be no strong mechanical vibration, impact and strong magnetic field. Packing box should be at least 20 cm high from the ground, do not allow water immersion.

If the storage time is too long (more than one year), it should be re-examined by professionals before it can be used.