



■ Features

- AC input(180-305 VAC)
- Built-in active PFC function
- IP67, Metal Case
- Suitable for indoor and outdoor environment
- Protections: Short circuit / Over voltage/Over temperature
- Adopt metal shell and internal glue potting, can be used in dangerous situations
- Built in lightning protection device can meet the requirements of DM 4KV / CM 6kV
- Compliance to worldwide safety regulations for lighting
- 5 years warranty

■ Description

The EV-SNG-350 series is a constant-voltage, outdoor waterproof power supply with 180–305 VAC input and up to 95% efficiency. It features a fanless design, wide operating temperature ($-40 \sim +70^{\circ}\text{C}$), high power factor, low THD, and low standby power. With built-in lightning and comprehensive protection, it offers high reliability and long service life — ideal for LED lighting such as street, flood, stage, and signage applications, meeting global safety standards.

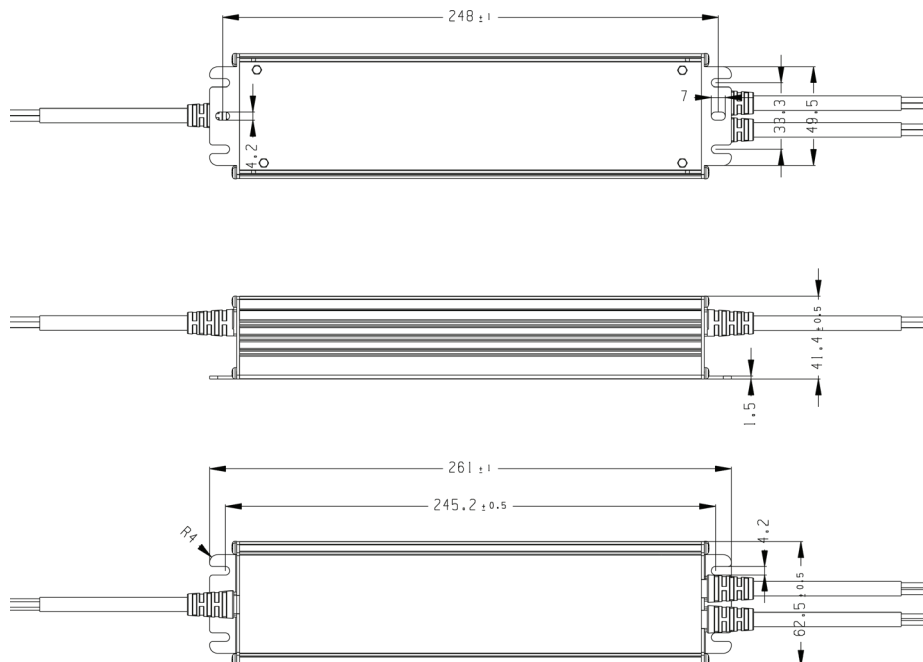
■ Specification



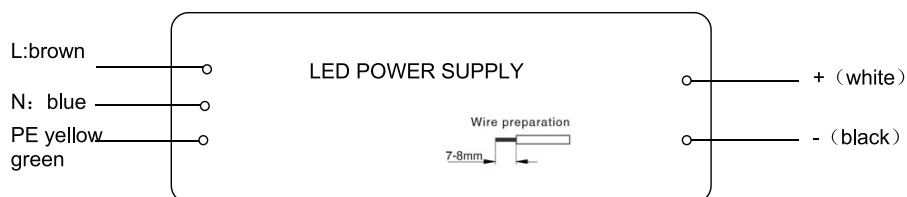
Model		EV-SNG-350-12	EV-SNG-350-24
Output	Output Power (W)	300	350
	Output Voltage Range (V)	12	24
	Output Voltage Tolerance	$\pm 5\%$	
	Ripple Voltage (mV)	240	480
	Line Regulation	2%	
	Load Regulation	5%	
	Working Current Range (A)	0–25	0–14.58
	SVM	0.1	
	Pst	0.1	
	Turn On Time (S)	<0.5	
Input	Rated DC Supply Voltage (Vdc)	255–431	
	Rated Supply Voltage (Vac)	200–277	
	Voltage Range (Vac)	180–305	
	Line Frequency (Hz)	50/60	
	Input Current (A)	1.8A @ 230V	
	Efficiency (Type)	93% @ Full Load	94.6% @ Full Load
	Average Efficiency (Type) 3	93.4%	94.7%
	No Load Power Consumption (W)	$\leq 0.5\text{W}$	
	Power Factor	0.98 @ Full Load	
	Displacement Factor	0.98	
	THD (Typ.)	<10% @ Full Load 230V	
	Inrush Current (Pk)	85A @ Twidth = 500 μs	
	Leakage Current (mA)	0.75 @ 240Vac 60Hz	
Protection	Short Circuit Protection	Hiccup Mode, Restart Automatically After Fault Correction	
	Over Load Protection	Exceed Maximum Rated Load Times 1.1–1.6	
	Over Voltage Protection	Hiccup Mode, Restart Automatically After Fault Correction	
	Over Temperature Protection	Latch Off	

Model		EV-SNG-350-12	EV-SNG-350-24
Protection	Surge Capacity	L–N: 4kV, L–N–GND: 6kV	
	Withstand Voltage	Input–Output: 3000V/ 5mA/1min, Input–GND: 1500V/ 5mA/1min	
	Ta (°C)	–40...70 (See Decreased Curve)	
	Tc Max. (°C)	Max. 90	
Ambient and Life	Storage Temperature (°C)	–40...80	
	Ambient Humidity Range	5%...85% RH, Not Condensing	
	Nominal Life-Time (Hrs)	50'000 @ Tc 80	
Other	Dimensions (L×W×H) (mm)	261 × 62.5 × 41.4	
	Weight (g)	1400	
	Casing Material	Metal	
	Housing Colour	Alumina Color	
	Type Of Protection	IP67	
	Protection Class	Class I	
	Certificate	-	
Note	1.Tolerance:includes set up tolerance, line regulation and load regulation. 2.Tested at full load,230Vac.Refer to"Power Factor" and "EFFICIENT"curve graphs. 3.Calculate the model's average efficiency for each test voltage by testing at 100%, 75%, 50%, and 25% of rated current and then computing the simple arithmetic average of these four values. 4.All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature. 5.The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.		

■ Mechanical Specification(12V)

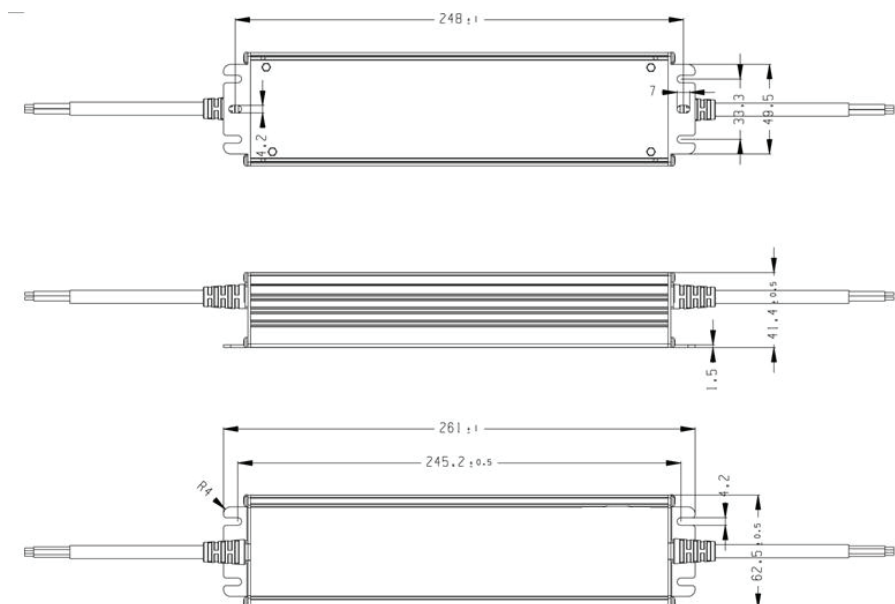


■ Mechanical Drawing(12V)

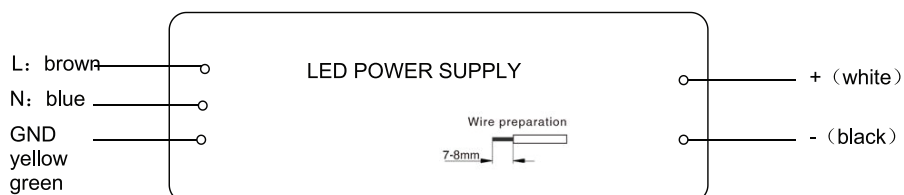


AC Input Cable	VDE, H05RN-F 105°C 3G*1.0mm ² , L=300mm+SR yellow green: PE, brown:L, blue: N
DC Output Cable	12V: SJTW, 2*14AWG *2 4*2.08mm ² 105°C , L=300mm+SR white :V+, black:VDimensions

■ Mechanical Specification(24V)



■ Mechanical Drawing(24V)



AC Input Cable	VDE, H05RN-F 105°C 3G*1.0mm ² , L=300mm+SR yellow green: PE, brown:L, blue: N
DC Output Cable	12V: SJTW, 2*14AWG *2 4*2.08mm ² 105°C , L=300mm+SR white :V+, black:VDimensions

■ Derating Curve

Fig. 1 Output load-Temperature curve

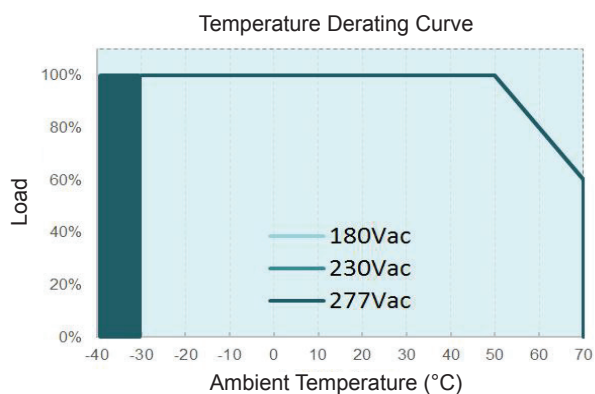


Fig. 2 Static characteristic curve

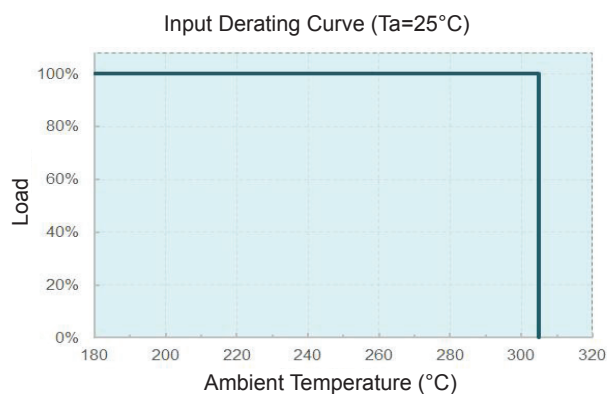


Fig. 3 I-V curve

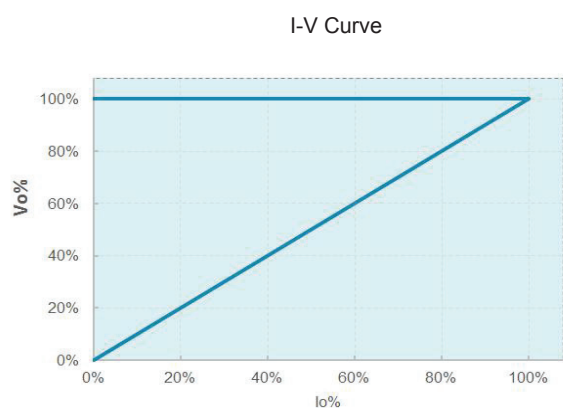


Fig. 4 Power factor characteristic curve

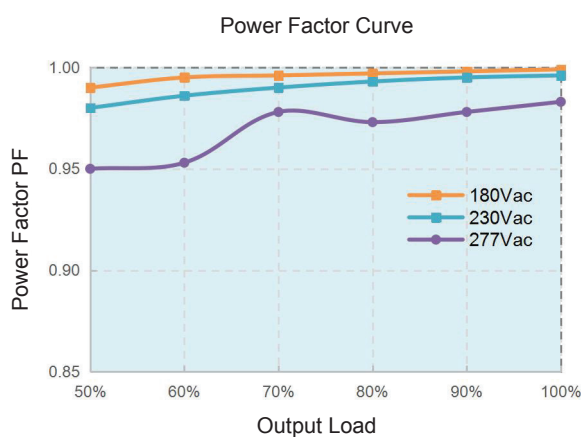


Fig.5 Total harmonic distortion curve (THD)

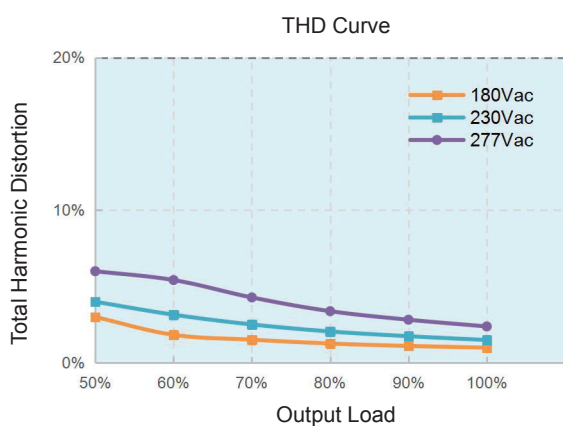
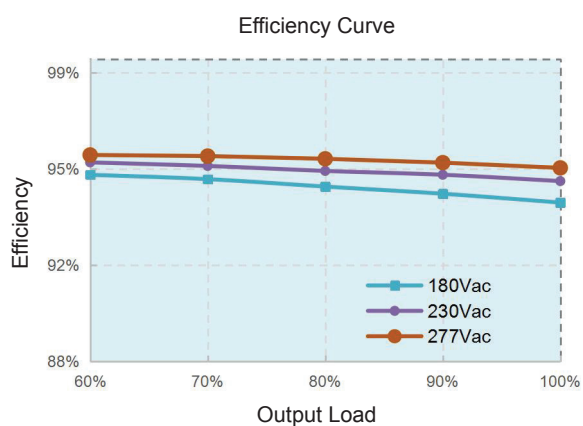


Fig.6 Efficiency-Load curve



■ MCBS

Model \ MCBS	B10	B13	B16	B20	C10	C13	C16	C20
EV-SNG-350-12	2	2	3	4	2	3	4	5
EV-SNG-350-24	2	2	3	4	2	3	4	5

■ Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
EV-SNG-350-12	10	32x18.5x28cm	13
EV-SNG-350-24	10	32x18.5x28cm	13