

1. Description

- ★ Input Voltage Range:176~264Vac
- ★ All-around Protection: OVP/SHORT
- ★ Ultra-compact design, T=30mm
- ★ Voltage Tolerance: $\pm 1\%$;
- ★ Long life and low-stress components design
- ★ Operating Temperature range: $-30^{\circ}\text{C}\sim 70^{\circ}\text{C}$
- ★ 100% full load burn-in test
- ★ 2 years warranty



2. Application/产品应用

LED panel /LED display

3. Model Selection

Model Number	Output Power	Output Current	Output Voltage	Efficiency*	Certification
JG-CV-200GK-12	200W	16.6A	12Vdc	87.5%	CE
JG-CV-200GK-15	200W	13.3A	15Vdc	88%	CE
JG-CV-200GK-24	200W	8.3A	24Vdc	88.5%	CE

*Efficiency is measured at 220Vac input and full load after the unit is thermally stabilized.

4. Specifications

Items		Specification
input	Input Voltage	176~264Vac
	Input Frequency	47~63Hz
	Power Factor	>0.5@ 220Vac& Full-Load
	Input Current	2.0Amax@220Vac& Full-Load
	Inrush Current ^②	60A max , 1.2ms @230Vac 25℃
	Leakage Current	1.0mAmx @230Vac 50Hz, IEC61347-1
Output	Voltage Tolerance	±1%
	Ripple Voltage (Vp-p)	150mVmax
	Setup Time	1.8s max@220Vac&Full-Load
	Output Overshoot	<10%Io-max
	Load Regulation	±2%
	Line Regulation	±0.5%
Protection	Over Current Protection(OCP)	1.2~1.7 Iomax The unit will be in hiccup mode when OCP and it will shift to normal state after the fault is removed.
	Input Under Voltage	No damage, auto-recovery
	Output Short Circuit Protection	During output short circuit, the product will be in self-protection mode and will not be damaged. After the fault is removed, the product will deliver output power as normal.
	Over Power Protection	110~150% rated
Ambient	Working Temperature	-30℃~+70℃(Ta) ^③
	Storage Temperature	-40℃~+85℃;5%RH~90%RH
	IP Rating	IP20
	Vibration Test	10~500Hz, 5G 12min. / 1 cycle, period for 72 min., each along X, Y, Z axes.
Others	Surge	1kV line-line, 2kV line-earth
	Hi-pot	Input-to-Output 1800Vac;Input-Ground 1500Vac;Output-Ground500Vac.
	MTBF ^④	≥100,000hrs(Ta=25℃,220Vac,80%Load)
	Life time	≥30,000hrs(Tc=75℃,220Vac,80%Load)
	Case Temperature	90℃ max
Mechanical	Dimensions	190*82*29.5mm (L×W×H)
	Mounting Hole	184mm
	Net Weight	450g

Comments:

- ① Unless specified, all the test results are measured in the 25 degrees Celsius room temperature.
- ② Duration time from 10%Ipk (rise) to10%Ipk (fall).
- ③ Tc stands for the case temperature, and Ta is the ambient temperature.
- ④ MTBF calculated by MIL-HDBK-217F.
- ⑤ Recommends that customers use with 80% load to ensure product life.

7. Revision History

Versions	Description of Change	Date
V01	First Release	2017.12.06