



■ FEATURES

- Universal 220VAC input
- High efficiency, long life, and high reliability
- Built in EMI filter, low ripple noise.
- Protections: Short circuit / Over current, over temperature is optional.
- Cooling by free air convection
- Low cost
- 3 years warranty

■ SPECIFICATION

MODEL		BCN-H60V012T	NOTE
OUTPUT	DC Voltage	12Vdc	
	Rated Current	5 A	
	Rated Power	60 W	Note 1
	Efficiency	≥ 84% (Typ. 84.5%)	Note 2
	Line Regulation	±1%	
	Load Regulation	±2%	
	Voltage Tolerance	±2%	
	Ripple & Noise (Max.)	≤ 400 mVp-p	Note 3
	Dynamic Response Overshoot	≤ 5%	Note 4
	Dynamic response recovery time	200 us	
	Turn-on Delay Time	≤ 2 s	
	Shutdown Hold Time	/	
	Switching Overshoot Amplitude	≤ ±10%	
INPUT	Rated Voltage Range	220Vac	
	Voltage Range	190~250Vac	Note 1
	Frequency Range	47-63Hz (typical 50/60Hz)	
	Max Ac Current	0.9 A	Note 5
	Inrush Current(Typ.)	≤ 60A	Note 6
PROTECTION	Current Limiting	8-12 A	Note 7
	Short Circuit	Long term short circuit without damage	Note 8
ENVIRONMENT	Working Temp.	-30~ +50°C(Typ. 25°C)	Note 9
	Storage Temp., Humidity	-35 ~ +85C, 5 ~ 90% RH	
	Altitude	0-2000 m	Note 10
	Cooling Method	Self-cooling	



SAFETY	Safety Standards	GB4943/UL1012
	Withstand Voltage	I/P-O/P: 3000VAC I/P-FG: 1800VAC O/P-FG: 500VAC
	Isolation Resistance	I/P-O/P, I/P- FG,O/P- FG: 50 MΩ/ 500VDC / 25°C/ 70% RH
	EMS	/
	EMC	/
OTHERS	MTBF	F≥100Khour, 25°C,full load output,MIL-HDBK-217F Notice2
	Dimension	152*39*29 mm (L*W*H)
	Packing	/

Installation requirements: When installing, the power supply bottom shell should be in close contact with the case to ensure heat dissipation of the power supply. When used in dusty environments, dust prevention measures should be taken to avoid operational failures.

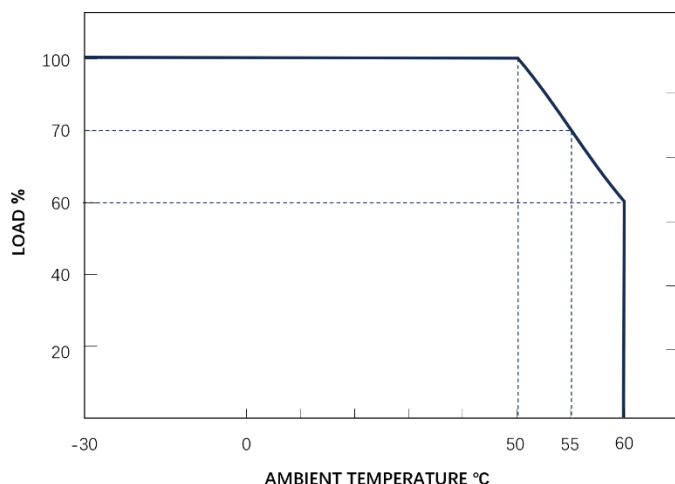
■ **NOTE**

1. Refer to derating curve.
2. 220Vac input, rated load, 25°C.
3. Maximum input full load, bandwidth limit of 20MHz, output with 10uf+0.1uf capacitance.
4. 25% ~ 50% ~ 25 and 50% ~ 75% ~ 50% load dynamic, the half-wave period is 4mS, the current change slope is 0.1A/us.
5. 220Vac input, full load.
6. 220Vac input, 25 °C, cold start.
7. Hiccup model recovers automatically after fault condition is removed.
8. Turn off the output voltage and recover after normal restart.
9. Refer to the derating curve, can power on at -35 °C.
10. Above 2000m, 1.5% load reduction for every 100 meters increase.

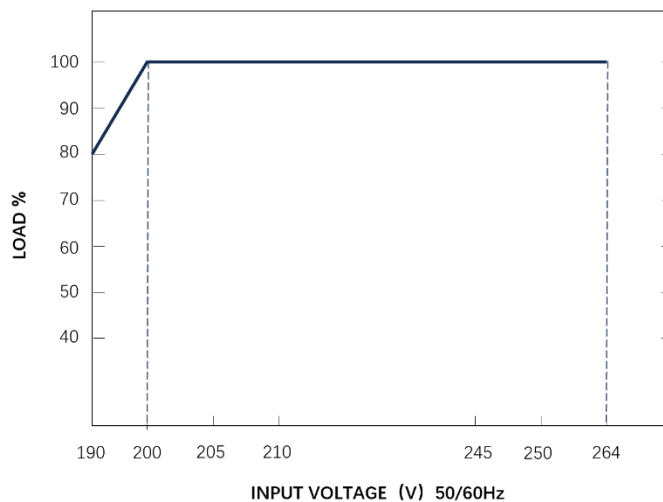
■ **DERATING CURVE**

★ To ensure the expected design service life of the product, when the ambient temperature rises to a certain value, the power supply also needs to be derated for use.

OUTPUT LOAD vs TEMPERATURE



OUTPUT LOAD vs INPUTVOLTAGE



■ MECHANICAL SPECIFICATION

