

HQN3 SERVES

- 封装尺寸Size dimensional: 50.8x25.4x12.7mm
- 定电压输入, 方波输出Fixed input, Output normal square
- 转换效率典型Typical efficiency :70%
- 开关频率Switching frequency:50-100KHz±30KHz
- 无短路保护No short circuit protection
- 输入与输出隔离Input-output isolate
- PCB板上直插式安装Board in-line type installs
- 温度适应范围宽Wide temperature range
- 六面金属屏蔽,超薄封装Six sides metal shielding, ultra-thin

外形图Outside drawing



CE RoHS

输入特性Input

	标称Nom(V)	最小Min(V)	最大Max(V)	输入范围Input range
输入电压范围 Input voltage range	5Vdc	4.75Vdc	5.25Vdc	±5%
	12Vdc	11.40Vdc	12.60Vdc	±5%
	15Vdc	14.25Vdc	15.75Vdc	±5%
	24Vdc	22.80Vdc	25.20Vdc	±5%
	48Vdc	45.60Vdc	50.4Vdc	±5%

输出特性Output

输出电压精度Output voltage accuracy	标称电压Nominal output voltage	Vo1: ±5.0%
源效应Line regulation	标称负载, 全范围Nominal load, gamut	Vo1: ±0.5%
负载效应Load regulation	20%~100%额定负载Rated load	Vo1: ±1.0%
输出波形Output waveform	标准方波Normal square	
输出频率Output frequency	25/50Hz	±3Hz
失真度Distortion factor	Nom: ±2%	Max: ±5%
输出电压调节Output voltage adjust		无调节端No adjust
启动延迟时间Start delay time	典型值Typical	≤200mS
输出短路保护Short circuit protection	过流保护Over-current protection	自恢复Auto recovery

一般特性General

转换效率Efficiency	Vo ≤ 5.0V:70%典型Typical	Vo > 5.0V:80%典型Typical
开关频率Switching frequency	80KHz典型Typical	100KHz最大Max
工作温度Operating temperature	自由空气对流Free air convection	-25℃ ~ +75℃工业级Industrial level
		-40℃ ~ +85℃军级Military I level
焊接温度Welding temperature	手工焊接Hand welding	360 ± 10℃; 时间Time :5~10S
	波峰焊接Wave welding	260 ± 5℃; 时间Time: 3~5S
储存温度Storage temperature		-40℃ ~ +105℃
相对湿度Relative humidity		10%~90%
外壳材料Case material		黑色金属壳Black metal case:DC
隔离电压Isolation voltage	输入与输出Input and output	1000Vdc ≤ 0.5mA/1分钟Minute
	输入与外壳Input and case	1000Vdc ≤ 0.5mA/1分钟Minute
最小无故障间隔时间 (MTBF)		2X10 ⁴ Hrs

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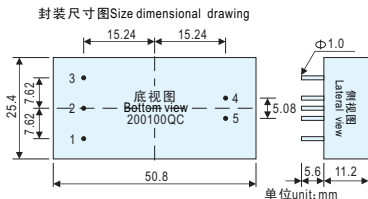
典型应用Type

输入电压范围 Input voltage range	输出电压 Output voltage	输出电流 Output current	输出波形 Output waveform	输出频率 Output frequency	型号 Type
5V(4.75-5.25V) 12V(11.40-12.60V) 24V(22.80-25.20V) 48V(45.60-50.40V)	12Vac	250mA	方波 Square	25/50Hz	J3QN12S12B1
	24Vac	125mA	方波 Square	25/50Hz	J3QN12S24B1
	75Vac	40mA	方波 Square	25/50Hz	J3QN12S75B1
	12Vac	250mA	方波 Square	25/50Hz	J3QN24S12B1
	24Vac	125mA	方波 Square	25/50Hz	J3QN24S24B1
	75Vac	40mA	方波 Square	25/50Hz	J3QN24S75B1
	12Vac	250mA	方波 Square	25/50Hz	J3QN48S12B1
	24Vac	125mA	方波 Square	25/50Hz	J3QN48S24B1
75Vac	40mA	方波 Square	25/50Hz	J3QN48S75B1	

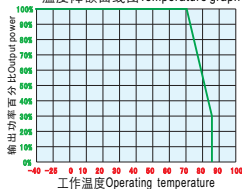
注:1、因篇幅有限, 以上只是部分产品列表, 若需列表以外产品, 请与本公司销售部或办事处联系。

2、当工作温度为+70℃时, 应按温度降额曲线图使用。

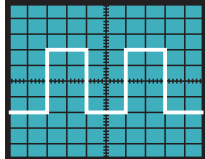
3、测试条件:所有参数测试均在标称输入电压、纯阻性额定负载及25℃室温环境下测得。



温度降额曲线图Temperature graph



输出波形: 方波Output waveform: Square



管脚说明Pin	1	2	3	4	5
单路Single	+Vin	REM	-Vin	+Vout	-Vout