

## JZ-22020B JZ11020C高频开关电源模块

产品名称	JZ-22020B JZ11020C高频开关电源模块
公司名称	福州鼎式辉电气有限公司
价格	.00/件
规格参数	品牌:福建二电 交流回路电流:5A,1A 交流频率:50Hz
公司地址	福建省福州市闽侯县上街镇沙堤村利民88-2号（注册地址）
联系电话	13950401334

## 产品详情

### JZ-22020B JZ11020C高频开关电源模块

JZ-22020B型高频开关电源模块采用了先进的无源PFC技术和脉宽调制软开关技术的控制技术（PWM），使得模块效率进一步提高，谐波减小。模块采用交流三相三线制380VAC平衡输入方式，不存在中线电流损耗。模块交流输入经过尖峰抑制电路和EMI吸收电路，经全桥整流滤波电路将三相交流电压整流为脉动的直流电压，由高频脉宽调制变换器变换将脉动的直流电压成高频方波电压，再由输出整流滤波电路，得到稳定的输出电压和电流，在电网电压和负载发生变化时反馈调整电路控制脉宽调制电路，使得输出电压和电流保持稳定。

JZ-22020B high-frequency switch power-supply module is produced with the advanced techniques of PFC and PWM. Its efficiency is enhanced and its harmonic is minished. The module inputs current with the equilibrium AC ternary-phase 3-line 380VAC so that there is no wastage in middle line. It input current through peak-restricting circuitry and EMI absorber circuit, and full bridge rectifier-filter circuit which change the ternary-phase AC voltage into pulsed DC voltage, then trough high-frequency pulsed modulator which change the pulsed DC voltage into high-frequency quadrate-wave voltage. At last, though output rectifier-filter circuit, the

stabilized voltage and current is outputted. Even when the electric network ' voltage and load change, the voltage and current can keep stable because the feedback-modulating circuit control pulse-modulating circuit.

### 三、技术指标 Technique Indexes

1. 工作环境温度： -10 ~ 45

Surrounding temperature: -10 ~ 45

2. 工作环境湿度： 90%PH无结露

Surrounding humidity: 90%PH Without dew

3. 工作环境高度： 2000m海拔

Surrounding height: 2000m Above sea level

4. 交流输入电压: 380V ± 20%

AC input voltage: 380V ± 20%

5. 交流输入频率: 50/60 ± 2%

AC input frequency: 50/60 ± 2%

6. 整定输出电压: 243VDC

Rectified output voltage: 243VDC

7. 输出电压范围: 180 ~ 300VDC

Output voltage range: 180 ~ 300VDC

8. 整定输出电流: 20ADC

Rectified output current: 20ADC

9. 输出电流范围: 2 ~ 20ADC连续可调

Output current range: 2 ~ 20ADC Continuous adjustable

10. 稳压精度:  $\pm 0.2\%$

Precision of stabilizing voltage  $\pm 0.2\%$

11. 稳流精度:  $\pm 0.2\%$

Precision of stabilizing current:  $\pm 0.2\%$

12. 纹波系数:  $\pm 0.2\%$

Ripple coefficient:  $\pm 0.2\%$

13. 并机不均流度:  $\pm 5\%$ (单只模块电流大于2A)

Disequilibrium degree of parallel-connected modules:

$\pm 5\%$  (Single module ' s current  $> 2A$ )

14. 输入欠压保护 :  $304 \pm 2VAC$

Input voltage belowlimit protection:  $304 \pm 2VAC$

15. 输入过压保护 :  $456 \pm 2VAC$

Input voltage overlimit protection:  $456 \pm 2VAC$

16. 输出过压保护 :  $300 \pm 2V$

Output voltage overlimit protection:  $300 \pm 2V$

17. 输出限流保护 :  $20 \pm 0.2A$

Output current limit protection:  $20 \pm 0.2A$

18. 模块过热保护 :  $85 \pm 5$

Module overheat protection:  $85 \pm 5$

19. 效率 : 90%

Efficiency: 90%

20. 冷却方式 : 温控风冷

Cooling way: Temperature-controlled wind cooling

#### 四、模块特点 Module Characteristics

##### 1. 交流输入范围宽：380V ± 20%

Wide range of input AC: 380V ± 20%

##### 2. 先进的无源PFC技术: 更好地抑制高次谐波，功率因数可达0.95。 Advanced PFC technique: high-frequency harmonic can be restricted better, and power factor can be 0.95

##### 3. 智能温控风冷方式：增加风机的使用寿命,使模块运行更可靠。

Intelligent temperature-controlled wind cooling: the usage life of fan is prolonged, which makes module running more safely.

##### 4. 先进的无级调流技术：可以根据负载电流或电池容量，无级调节限流值。

Advanced stepless modulating technique: it can steplessly modulate current limit values according to load current or battery 's capacitance.

##### 5. 先进的自主均流电路：采用先进的专用均流芯片，在小电流下仍达到很好的均流效果。

Advanced self-controlled current dividing circuit: with advanced current dividing chip, the current can be

divided well even when it is very low.

6. 多级保护电路：输入级采用双臂逐个脉宽保护电路，输出限流和过电流双重保护，确保整个系统在异常情况下可靠保护。

Multi-protection circuit: output steps are composed of double-arm gradual pulse protection circuit, and with the double-protection of output current limit and overcurrent, it can be ensured that the whole system is protected well under abnormal conditions.

7. 独立工作能力：模块在脱离监控的情况下，可以独立或并机正常工作。

Independent running ability: modules can run normally by itself or connected to other machines in parallel without being monitored.

## 五、模块结构和功能 Module Configuration And Functions

### 1.1 前面板说明 Front Panel instruction

1. 前面板如图一。

Front panel: see Fig.1

2. 输入缺相指示灯（红色）：当模块输入缺相时，此指示灯被点亮，模块保护，无输出。当输入正常

时，此指示灯熄灭，模块输出正常。

Indicator light of AC loss (red): it is lightened when module does not input with all phase, and it does not output to protect the module. The light goes out when module inputs normally, and it also outputs normally.

3. 输入过压指示灯（红色）：当模块输入电压高于 $465 \pm 2\text{VAC}$ 时，此指示灯被点亮，模块保护，无输出。当输入正常时，此指示灯熄灭，模块输出正常。

Indicator light of V-In Over-L (red): it is lightened when the input voltage is more than  $465 \pm 2\text{VAC}$ , and the module does not output to protect itself. The light goes out when module inputs normally, and it also outputs normally.