

# 常州市创联电源科技股份有限公司

Changzhou Chuanglian Power Supply Technology Corporation

## 承认书

### CERTIFICATE FOR CONFIRMATION

客户名称 ( CUSTOMER ) : \_\_\_\_\_  
客户料号 ( PART NO. ) : \_\_\_\_\_  
产品名称 ( PART NAME ) : Switching Power Supply  
产品规格 ( DESCRIPTION ) : A-200FAK  
编制日期 ( DATE ) : \_\_\_\_\_

| 制定<br>(Engineer) | 审核<br>(Supervisor) | 核准<br>(Engineer Manager) |
|------------------|--------------------|--------------------------|
| 邓传佰<br>2016/1/28 |                    |                          |
| 承认<br>(Engineer) | 审核<br>(Supervisor) | 核准<br>(Engineer Manager) |
|                  |                    |                          |

注:此承认书一式二份,请签核完后寄回我司一份保存。

Remark:This certification is in duplicate,please send us a copy signing.

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# A-200FAK Switching Power Supply



## ◆ Features

- Fixed switching frequency at 65 KHz
- Cooling by free air
- Protections: short circuit/overload/over
- 100% pass aging test
- **No load power**
- 3 years warranty

## General Specifications

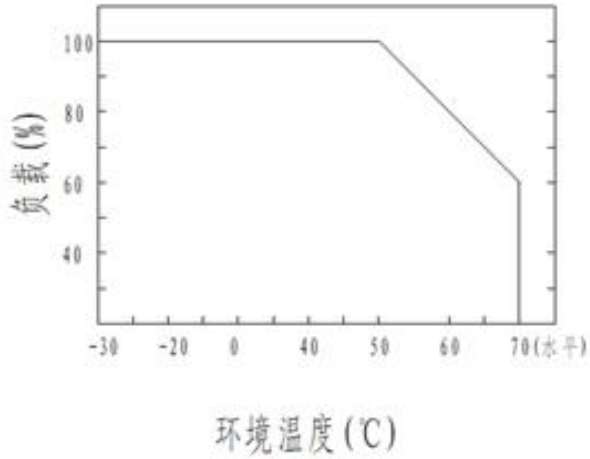
| Model No.   | A-200FAK-5                        | A-200FAK-12   | A-200FAK-24 | A-200FAK-36 | A-200FAK-48 |          |
|---|-----------------------------------|---|-------------|-------------|-------------|----------|
| Output  | DC voltage                        | 5V  | 12V         | 24V         | 36V         | 48V      |
|   | Rated current                     | 40A   | 17A         | 8.8A        | 5.9A        | 4.4A     |
|   | Current Range                     | 0~40A   | 0~17A       | 0~8.8A      | 0~5.9A      | 0~4.4A   |
|   | Rated power                       | 200W  | 204W        | 211.2W      | 212.4W      | 211.2W   |
|   | Ripple & Noise                    | 150mVp-p  | 150mVp-p    | 150mVp-p    | 200mVp-p    | 200mVp-p |
|   | Voltage regulation range          | ±1%   |             |             |             |          |
|   | Voltage accuracy                  | ±1.5%   |             |             |             |          |
|   | Line regulation                   | ±0.5%   |             |             |             |          |
|   | Load adjustment rate              | ±1%   |             |             |             |          |
|   | start,Rise time                   | 1300ms, 50ms/230VAC 1300ms, 50ms/115VAC 100% load                   |             |             |             |          |
| Hold up time (Typ)  | 16ms/230VAC 12ms/115VAC 100% load |   |             |             |             |          |
| Input   | Voltage range                     | 90~132VAC/180~264VAC(selected by switch) 240~370VDC(when on 230VAC) |             |             |             |          |
|   | Frequency                         | 47~63HZ   |             |             |             |          |
|   | Efficiency (Typ)                  | 85%   | 86%         | 90%         | 90%         | 90%      |
|   | Alternating current               | 115VAC 230VAC   |             |             |             |          |
|   | Inrush current (Typ)              | Cold start 60A/115VAC 60A/230VAC                                    |             |             |             |          |
| Protect ions  | Leakage current                   | <2mA/240VAC   |             |             |             |          |
|   | Overload                          | 110~140% of rated output  |             |             |             |          |
|   | Short circuit                     | Hiccup mode, auto-recovery  |             |             |             |          |
|   | Over voltage (hiccup)             | 115%-135% rated output voltage, hiccup mode                         |             |             |             |          |
| Envirom ent   | over temp.                        | Hiccup mode, auto-recovery  |             |             |             |          |
|   | Working temp.                     | -30℃~+70℃ (refer to output derating curve)                          |             |             |             |          |
|   | Working humidity                  | 20~95%RH non-condensing   |             |             |             |          |
|   | Storage temp.                     | -40℃~+85℃   |             |             |             |          |
|   | Storage temp.                     | 10~95%RH non-condensing   |             |             |             |          |
| Safety  | temp. coefficient                 | ±0.03%/℃ (0~50℃)  |             |             |             |          |
|   | Vibration resistance              | 10~500Hz, 2G, 10min/cycle, X、Y、Z 60min in each direction            |             |             |             |          |
|   | Safety standards                  | design accoring to GB4943-2001, UL60950-1                           |             |             |             |          |
|   | withstand voltage                 | I/P-O/P:3KV AC、I/P-FG: 2KV AC、O/P-FG: 0.5KV AC                      |             |             |             |          |
| Others  | Isolation Resistance              | I/P-O/P、I/P-FG、O/P-FG: 大于100MΩ/500VDC/25℃/70%RH                     |             |             |             |          |
|   | EMC                               | GB9254, EN55022 class A   |             |             |             |          |
| Remarks   | MTBF                              | 226,400 hours(25℃)  |             |             |             |          |
|   | Size                              | 215*115*30 (L*W*H)  |             |             |             |          |
|   | Packing                           | 0.75Kg/pc   |             |             |             |          |
| <p>*In order to extend the lifetime, it is recommended to configure the load no more than 30% of the remaining allowance. For example: the power of the device requires 100W, then use the power of less than 130W.</p> <p>*Ripple test method: 20MHz oscilloscope in power output terminal test, oscilloscope probe wire length is not more than 12mm, and input parallel 47uF electrolytic capacitors and 0.1uF high frequency capacitance probe.</p> |                                   |   |             |             |             |          |



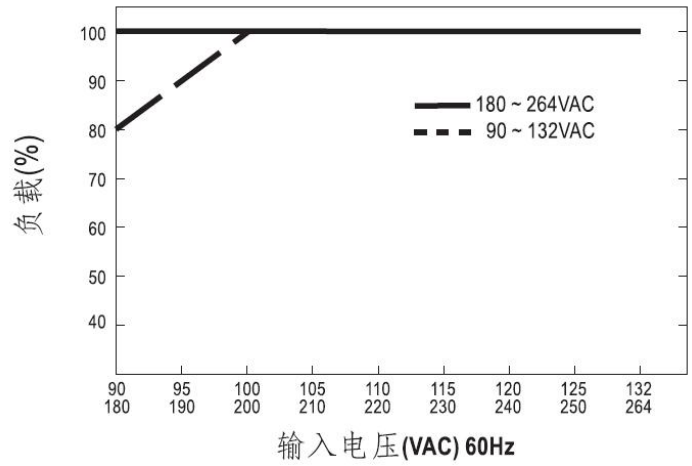
# A-200FAK Switching Power Supply

## Load temperature drop curve

■ 负载随环境温度降额曲线:

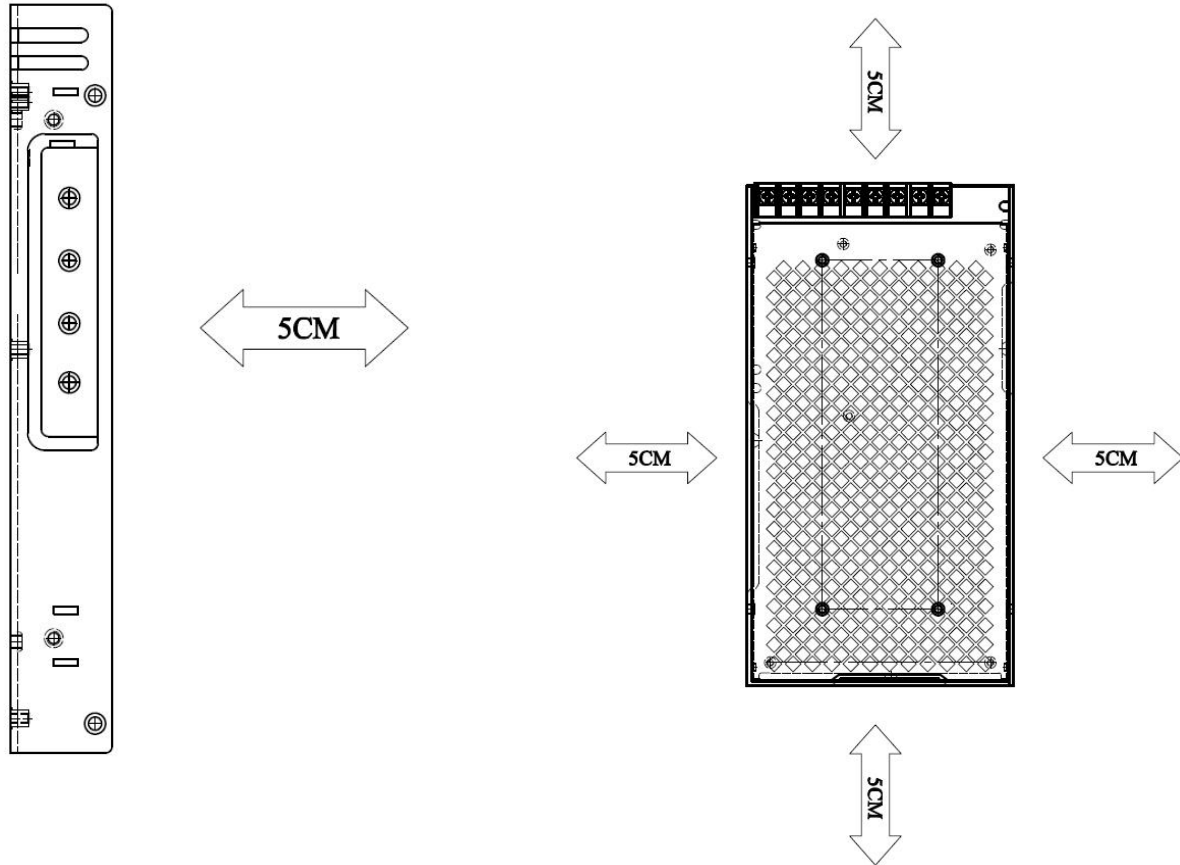


■ 静态特性曲线



## Installation

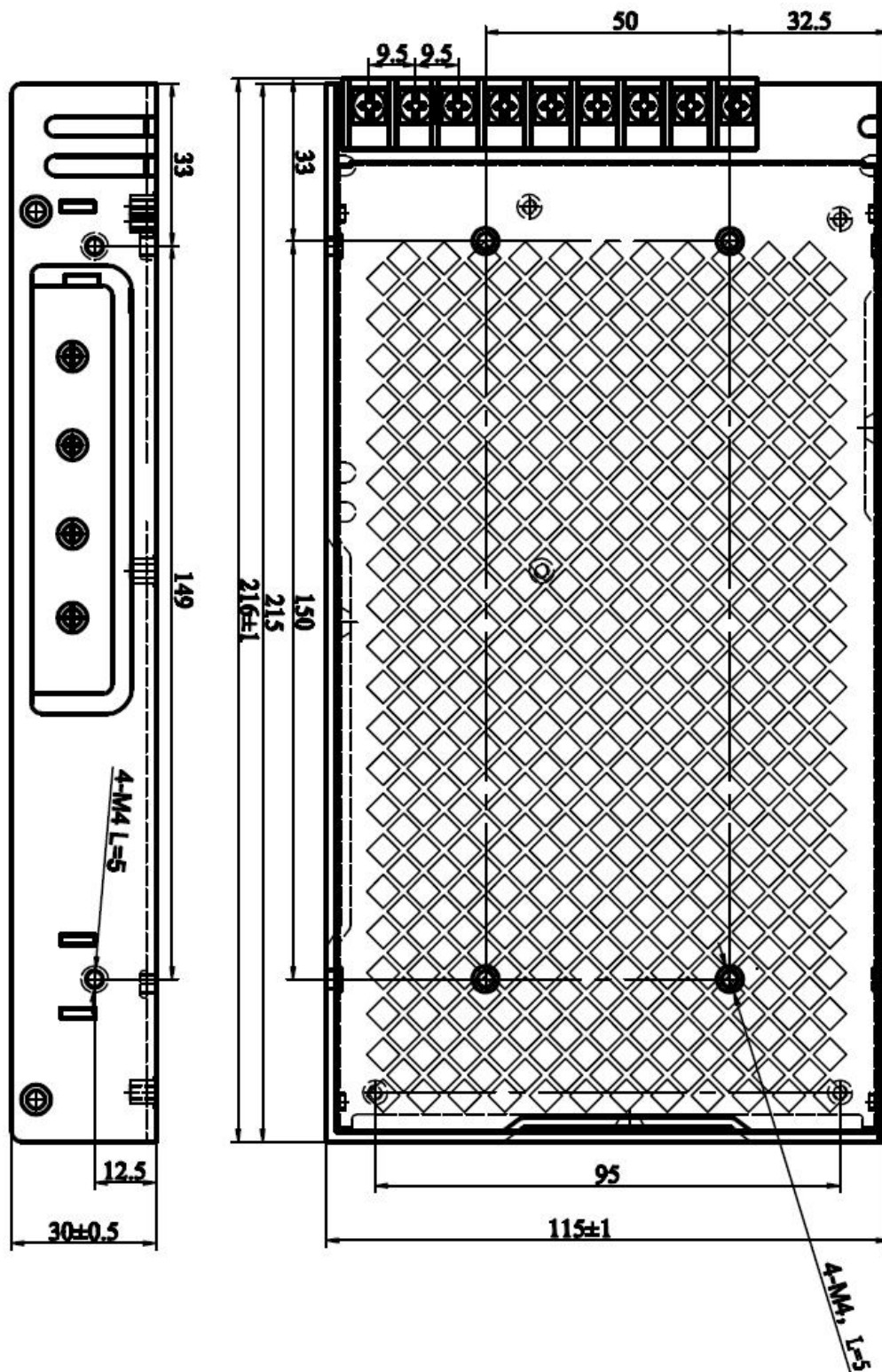
- 1、In order to comply with the reduced amount of curve and static characteristics curve, A-200FAK must be installed in a plate (or the same size above the casing), advice sheet size for 450\*450mm\*3 for optimizing the thermal performance of aluminum must have a very smooth surface (or coated with thermal paint), and A-200FAK must tightly fitted in the middle of . . . . .
- 2、To ensure good heat dissipation, the power supply must be set aside at least 5cm of space around the installation, as shown in the figure below:





# A-200FAK Switching Power Supply

Drawing:



| Pin No. | Assignment | Pin No. | Assignment     |
|---------|------------|---------|----------------|
| $\perp$ | FG         | -V      | DC output (-V) |
| N       | AC/N       | +V      | DC output (+V) |
| L       | AC/L       |         |                |