



■ Features :

- AC input 180~260VAC, 3 ϕ 3 wire
- AC 220V, 1 ϕ or 380V, 3 ϕ 4 wire(option)
- PF> 0.98@ 230VAC
- Protections: Short circuit/ Overload/ Over voltage/ Over temperature
- Built-in remote sense function, remote ON-OFF control
- Power good signal
- With parallel function(N+1)
- Can adjust from 20~100% output voltage by external control 1-5V
- Forced air cooling by built-in DC fan
- Case coating with paint
- 3 years warranty

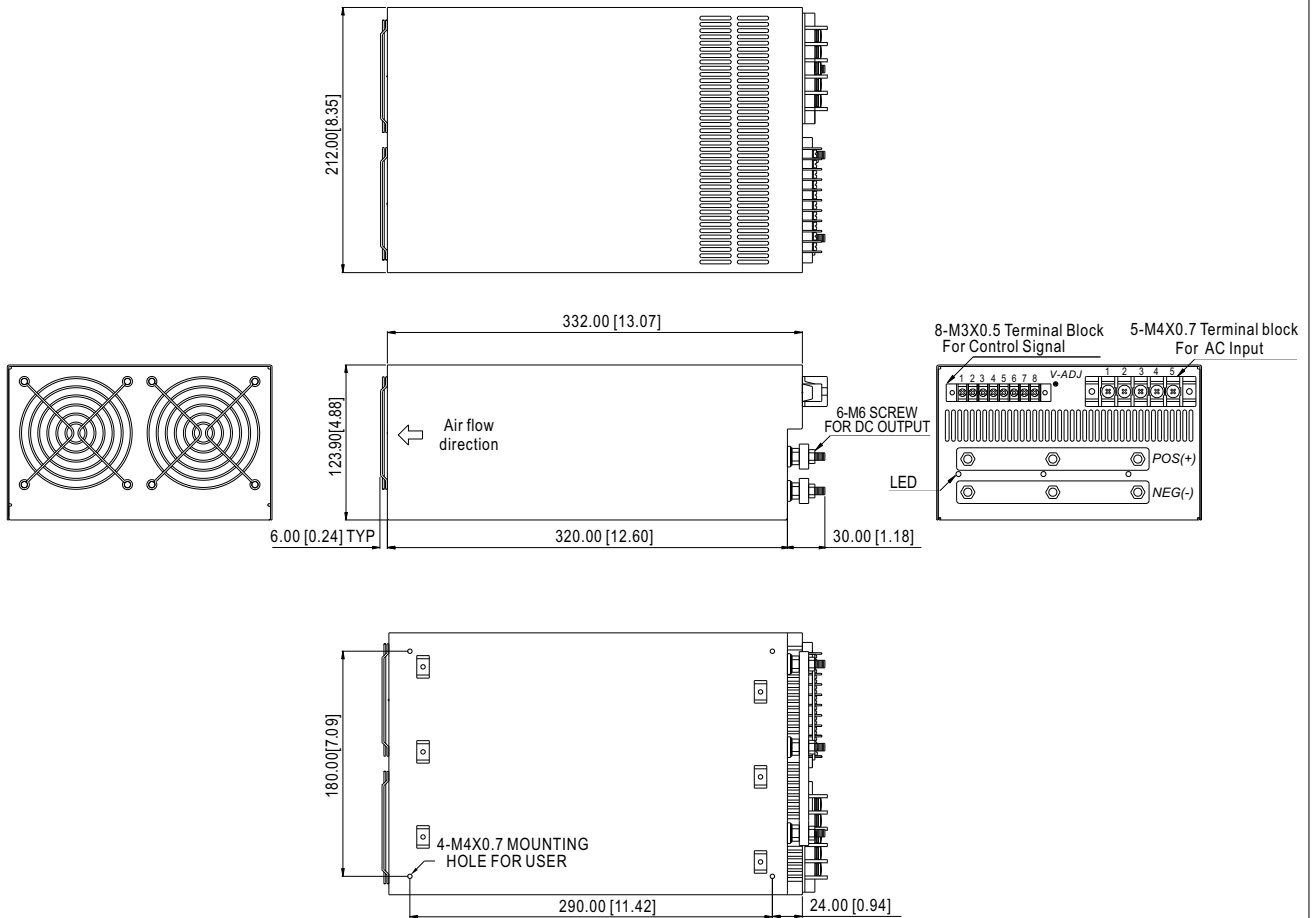


SPECIFICATION

| ORDER NO. | SCP-2K4-09 | SCP-2K4-12 | SCP-2K4-15 | SCP-2K4-18 | SCP-2K4-24 | SCP-2K4-36 | SCP-2K4-48 | SCP-2K4-60 | |
|------------------------|---|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| OUTPUT | SAFETY MODEL NO. | 2K4S-P009 | 2K4S-P012 | 2K4S-P015 | 2K4S-P018 | 2K4S-P024 | 2K4S-P036 | 2K4S-P048 | 2K4S-P060 |
| | DC VOLTAGE | 9V | 12V | 15V | 18V | 24V | 36V | 48V | 60V |
| | RATED CURRENT | 266A | 200A | 160A | 133A | 100A | 66A | 50A | 40A |
| | CURRENT RANGE | 0 ~ 266A | 0 ~ 200A | 0 ~ 160A | 0 ~ 133A | 0 ~ 100A | 0 ~ 66A | 0 ~ 50A | 0 ~ 40A |
| | RATED POWER | 2400W | 2400W | 2400W | 2400W | 2400W | 2400W | 2400W | 2400W |
| | RIPPLE & NOISE (max.) Note.2 | 90mVp-p | 120mVp-p | 150mVp-p | 150mVp-p | 150mVp-p | 200mVp-p | 200mVp-p | 200mVp-p |
| | VOLTAGE ADJ. RANGE | $\pm 5.0\%$ Typical adjustment by potentiometer 20%~100% adjustment by 1~5VDC external control | | | | | | | |
| | VOLTAGE TOLERANCE Note.3 | $\pm 2.0\%$ | $\pm 1.0\%$ | $\pm 1.0\%$ | $\pm 1.0\%$ | $\pm 1.0\%$ | $\pm 1.0\%$ | $\pm 1.0\%$ | $\pm 1.0\%$ |
| | LINE REGULATION | $\pm 0.5\%$ | $\pm 0.5\%$ | $\pm 0.5\%$ | $\pm 0.5\%$ | $\pm 0.5\%$ | $\pm 0.5\%$ | $\pm 0.5\%$ | $\pm 0.5\%$ |
| | LOAD REGULATION | $\pm 1.5\%$ | $\pm 0.5\%$ | $\pm 0.5\%$ | $\pm 0.5\%$ | $\pm 0.5\%$ | $\pm 0.5\%$ | $\pm 0.5\%$ | $\pm 0.5\%$ |
| SETUP, RISE, HOLD TIME | 800ms, 400ms, 12ms at full load | | | | | | | | |
| INPUT | VOLTAGE RANGE | 180 ~ 260VAC 3 ϕ 3 wire (other system available) | | | | | | | |
| | FREQUENCY RANGE | 47~63Hz | | | | | | | |
| | POWER FACTOR | >0.98 / 230VAC | | | | | | | |
| | EFFICIENCY (Typ.) | 83% | 84% | 85% | 86% | 88% | 88% | 89% | 89% |
| | AC CURRENT | 15A / 230VAC | | | | | | | |
| | INRUSH CURRENT (max.) | 60A / 230VAC | | | | | | | |
| LEAKAGE CURRENT(max.) | 3.5mA / 240VAC | | | | | | | | |
| PROTECTION | OVER LOAD Note.4 | 110~140% rated output power Protection type : Current limiting, delay shut down o/p voltage, re-power on to recover | | | | | | | |
| | OVER VOLTAGE | 110 ~ 135% Follow to output set up point Protection type : Shut down o/p voltage, re-power on to recover | | | | | | | |
| | OVER TEMPERATURE | >100 $^{\circ}$ C / measure by heat sink, near transformer Protection type : Shut down o/p voltage, recovers automatically after temperature goes down | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -20 ~ +65 $^{\circ}$ C (Refer to output load derating curve) | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -20~+85 $^{\circ}$ C 10~95% RH | | | | | | | |
| | TEMP. COEFFICIENT | $\pm 0.04\%$ / $^{\circ}$ C (0~50 $^{\circ}$ C) | | | | | | | |
| | VIBRATION | 10~200Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | | | | | | | |
| SAFETY & EMC (Note. 5) | SAFETY STANDARDS | UL60950, TUV EN60950 Approved | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC | | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC | | | | | | | |
| | EMI CONDUCTION & RADIATION | Compliance to EN55022 (CISPR22) class A | | | | | | | |
| | HARMONIC CURRENT | Compliance to EN61000-3-2,3 | | | | | | | |
| OTHERS | EMS IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, Light industry level, criteria A | | | | | | | |
| | POWER GOOD SIGNAL | Open collector of NPN transistor | | | | | | | |
| | SPECIAL FUNCTION | DC Voltage Adj., Remote sensing, remote control, parallel operation(refer to control terminal instruction manual) | | | | | | | |
| | COOLING | By fan, >20% load or >50 $^{\circ}$ C fan on | | | | | | | |
| | MTBF | 24.9K hrs min. MIL-HDBK-217F(25 $^{\circ}$ C) | | | | | | | |
| | DIMENSION | 350*212*124mm (L*W*H) | | | | | | | |
| PACKING | 9.0kg ; 1pcs / 10kg / CARTON | | | | | | | | |
| NOTE | <ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25$^{\circ}$C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μf & 47μf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Current limiting 3 times(1.5s,3.0s,5.0s)Then intelligent auto recovery before shut down 5. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. | | | | | | | | |

Unit:mm

Mechanical Specification



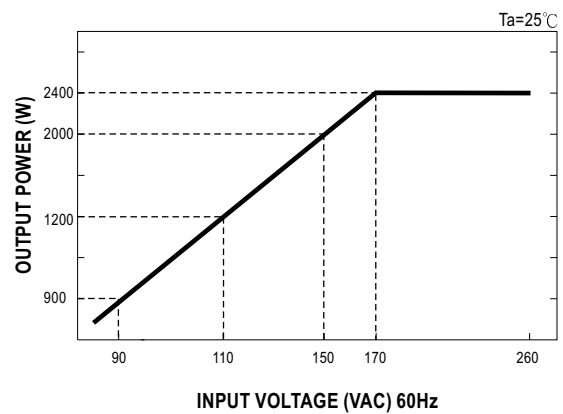
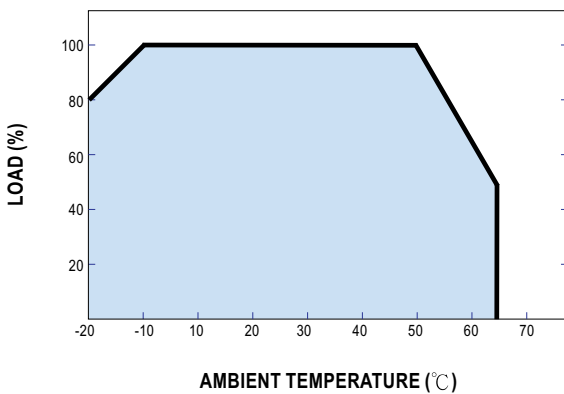
Control Terminal Pin. No. Assignment :

| Pin No. | Assignment | Pin No. | Assignment |
|---------|------------|---------|------------|
| 1 | VS+ | 5 | PG |
| 2 | VS- | 6 | PAR |
| 3 | VCI | 7 | GND |
| 4 | VCO | 8 | INH |

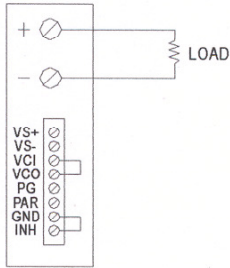
AC Input Terminal Pin. No. Assignment

| Pin No. | Assignment | Pin No. | Assignment |
|---------|------------|---------|------------|
| 1 | FG \perp | 4 | S |
| 2 | N | 5 | R |
| 3 | T | | |

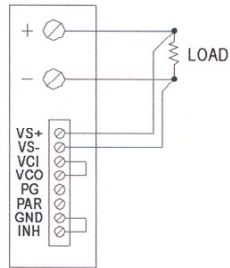
Derating Curve



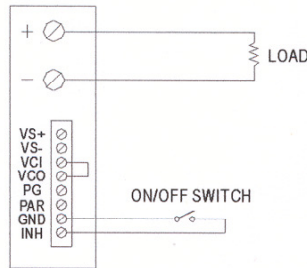
Control terminal instruction manual



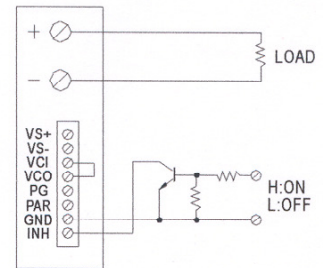
USING INTERNAL VOLTAGE CONTROL



REMOTE SENSING

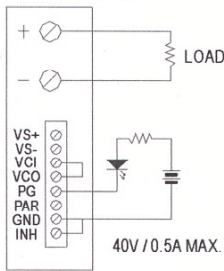


ON/OFF CONTROL BY SWITCH

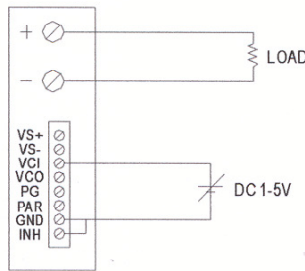


ON/OFF CONTROL BY TRANSISTOR

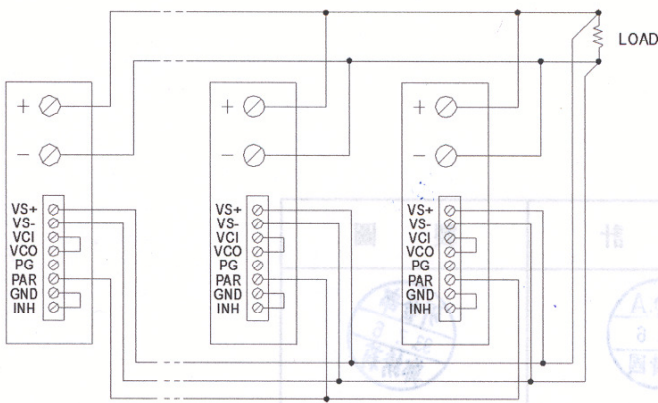
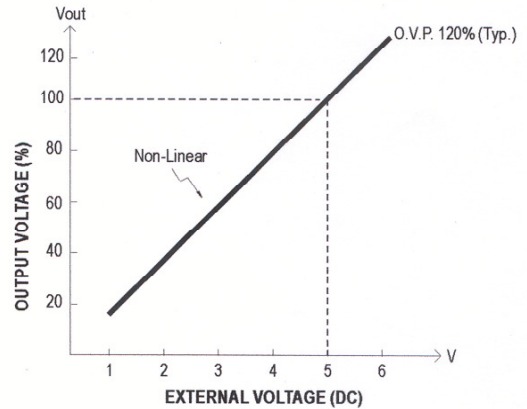
GOOD : LED OFF
FAIL : LED ON



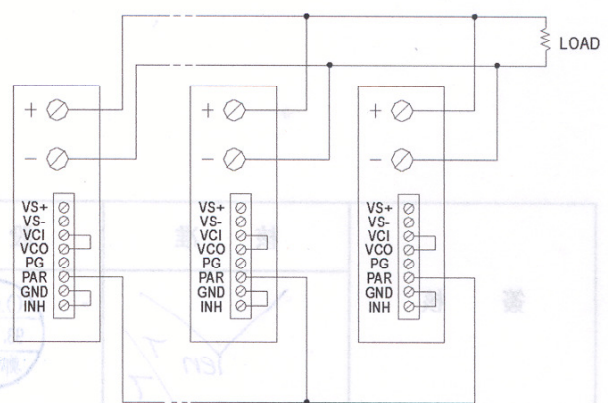
POWER GOOD SIGNAL



OUTPUT VOLTAGE ADJUST WITH DC 1-5V



PARALLEL OPERATION WITH REMOTE SENSING



PARALLEL OPERATION WITHOUT REMOTE SENSING