



2000W Single Output With Parallel Function

SCN-2K0 series



■ Features :

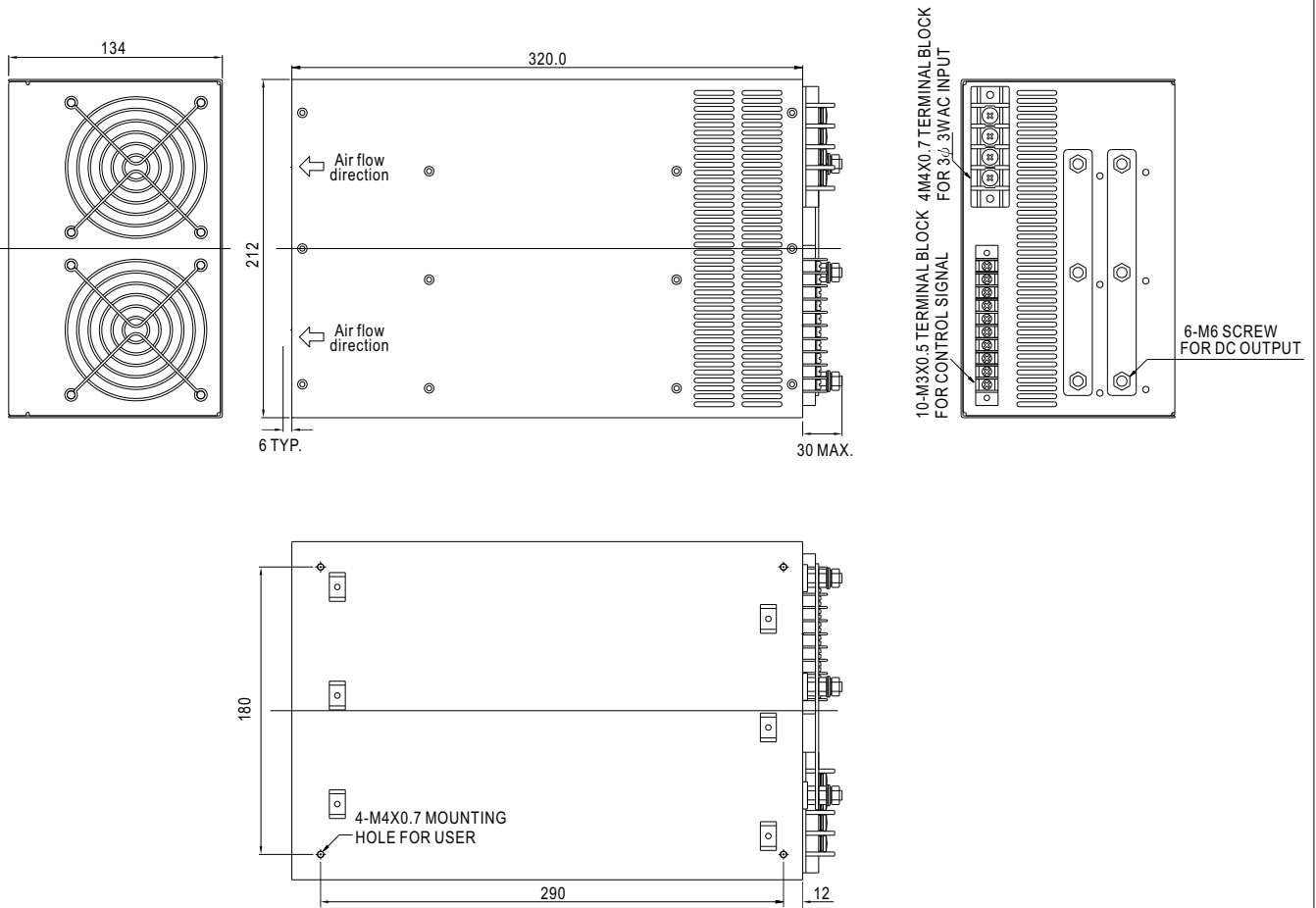
- AC input 200~260VAC, 3 ϕ 3wires (other system available)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- High reliability; Low ripple noise
- Built-in remote sense function
- Built-in remote ON-OFF control
- Built-in parallel operation function
- Can adjust from 20~100% output voltage by external control 1-5V
- Forced air cooling by built-in DC fan
- Case coating with paint
- 2 years warranty

Parallel

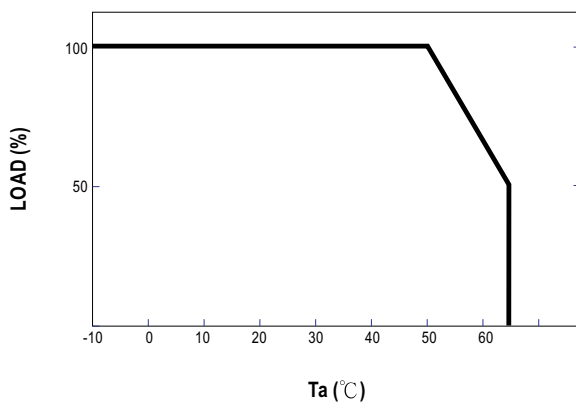
SPECIFICATION

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|---------------------------|---|--|------------|------------|------------|------------|
| ORDER NO. | | SCN-2K0-05 | SCN-2K0-12 | SCN-2K0-15 | SCN-2K0-24 | SCN-2K0-48 |
| OUTPUT | SAFETY MODEL NO. | 2K0S-N005 | 2K0S-N012 | 2K0S-N015 | 2K0S-N024 | 2K0S-N048 |
| | DC VOLTAGE | 5V | 12V | 15V | 24V | 48V |
| | RATED CURRENT | 250A | 167A | 134A | 83.5A | 42A |
| | CURRENT RANGE | 0 ~ 250A | 0 ~ 167A | 0 ~ 134A | 0 ~ 83.5A | 0 ~ 42A |
| | RATED POWER | 1250W | 2004W | 2010W | 2004W | 2016W |
| | RIPPLE & NOISE (max.) Note.2 | 150mVp-p | 180mVp-p | 200mVp-p | 240mVp-p | 480mVp-p |
| | VOLTAGE ADJ. RANGE | ±5.0% typical adjustment by potentiometer 20~100% adjustment by 1~5VDC external control | | | | |
| | VOLTAGE TOLERANCE Note.3 | ±3.0% | ±2.0% | ±2.0% | ±1.0% | ±1.0% |
| | LINE REGULATION | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| | LOAD REGULATION | ±2.5% | ±1.5% | ±1.5% | ±0.5% | ±0.5% |
| SETUP, RISE, HOLD UP TIME | | 800ms, 50ms, 16ms at full load | | | | |
| INPUT | VOLTAGE RANGE | 200 ~ 260VAC, 3ϕ , 3wires | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | |
| | EFFICIENCY (Typ.) | 78% | 84% | 84% | 85% | 86% |
| | AC CURRENT | 9.5A / 230VAC | | | | |
| | INRUSH CURRENT (max.) | 120A / 230VAC | | | | |
| | LEAKAGE CURRENT (max.) | 5mA/ 240VAC | | | | |
| PROTECTION | OVERLOAD | 110 ~ 135% 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℃ / measure by heat sink, near transformer Protection type : Shut down o/p voltage, re-power on to recover | | | | |
| | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -10 ~ +65℃ (Refer to output load derating curve) | | | | |
| | WORKING HUMIDITY | 20% ~ 90% RH non-condensing | | | | |
| | STORAGE TEMP., HUMIDITY | -20 ~ +85℃, 10 ~ 95% RH | | | | |
| | TEMP. COEFFICIENT | ±0.04% / ℃ (0 ~ 50℃) | | | | |
| | VIBRATION | 10 ~ 200Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | |
| SAFETY & EMC (Note. 4) | SAFETY STANDARDS | Design refer to UL1950, CSA22.2, IEC60950 | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:1500VAC, I/P-FG:1500VAC | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, >100M Ohms / 500VDC / 25℃ / 70% RH | | | | |
| | EMI CONDUCTION & RADIATION | Design refer to FCC part 15 class A | | | | |
| | HARMONIC CURRENT | ---- | | | | |
| | EMS IMMUNITY | ---- | | | | |
| OTHERS | MTBF | 30khrs min. MIL-HDBK-217F (25℃) | | | | |
| | DIMENSION | 320*212*134mm (L*W*H) | | | | |
| | PACKING | 9.0kg; 1pcs/ 10kg / CARTON | | | | |
| | SPECIAL FUNCTION | DC voltage adj., Remote sensing, remote control, parallel operation (refer to terminal instruction manual) | | | | |
| NOTE | 1.All parameters are specified at 230VAC input, rated load, 25℃ 70% RH ambient. 2.Tolerance: includes set up tolerance, line regulation, load regulation. 3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor. 4.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. | | | | | |

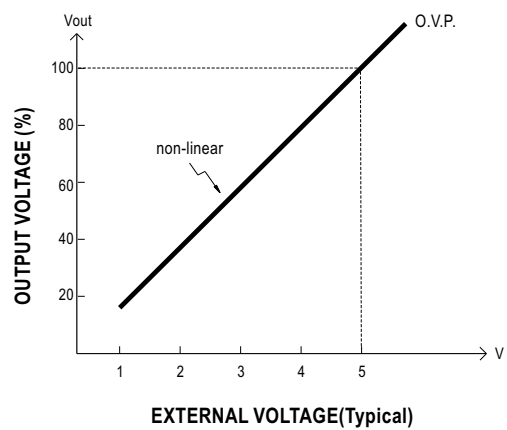
Mechanical Specification



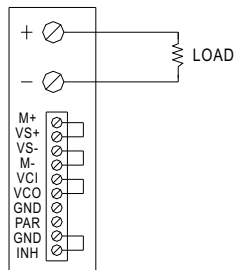
Derating Curve



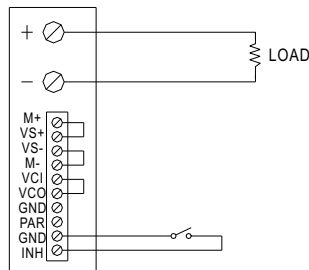
External DC Control VS Output Voltage



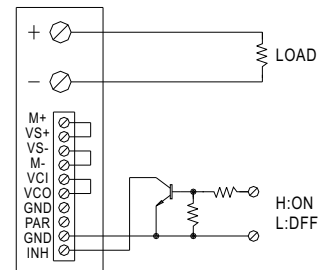
Control terminal instruction manual



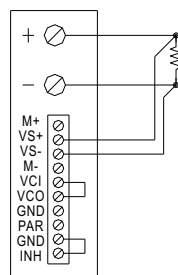
USING INTERNAL VOLTAGE CONTROL



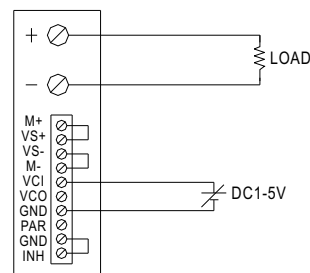
ON/OFF CONTROL SWITCH



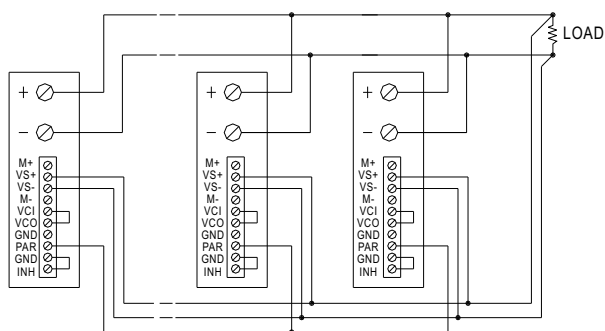
ON/OFF CONTROL BY TRANSISTOR



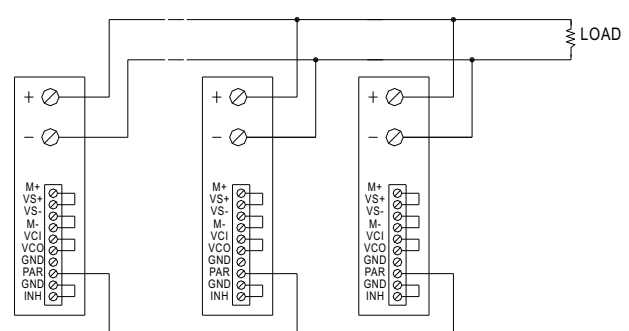
REMOTE SENSING



OUTPUT VOLTAGE ADJUST WITH DC 1-5V

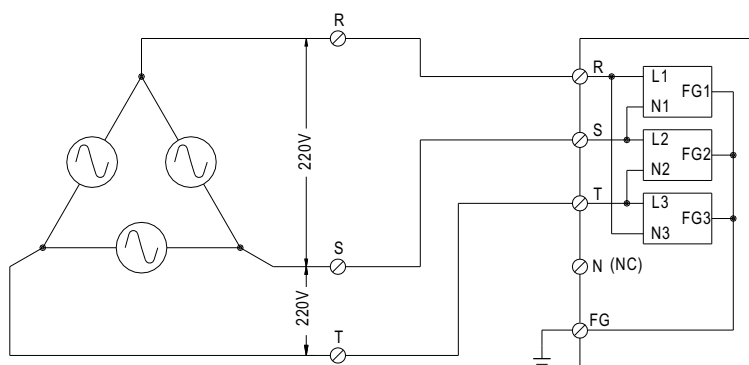


PARALLEL OPERATION WITH REMOTE SENSING

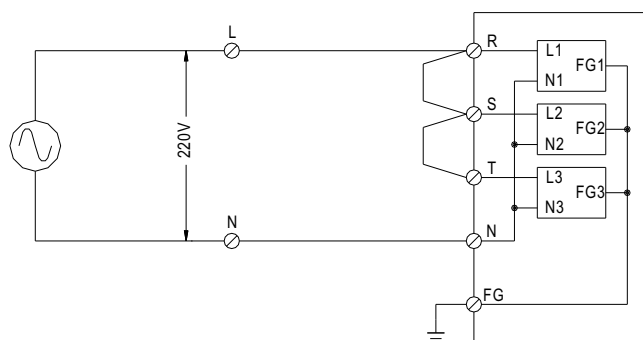


PARALLEL OPERATION

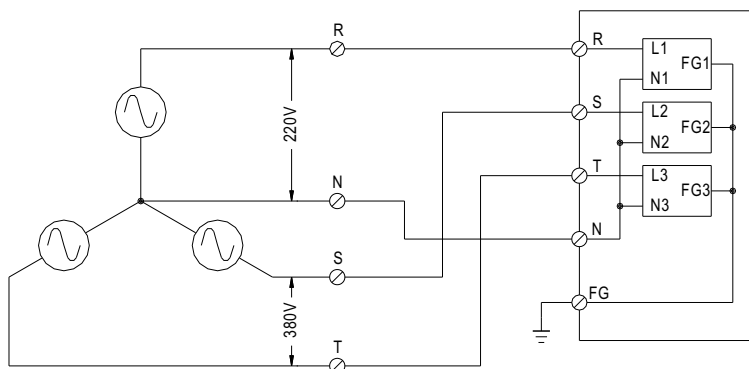
■ FIG. A: 3 ϕ 3W 220VAC SYSTEM (STANDARD MODEL FOR STOCK)



■ FIG. B: 1 ϕ 220VAC SYSTEM



■ FIG. C: 3 ϕ 4W 220/380VAC SYSTEM



■ FIG. D: 3 ϕ 4W 190/110VAC SYSTEM

