



## 600W Single Output With Parallel Function

## SCN-600 series



### ■ Features :

- AC input range selected by switch
- 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

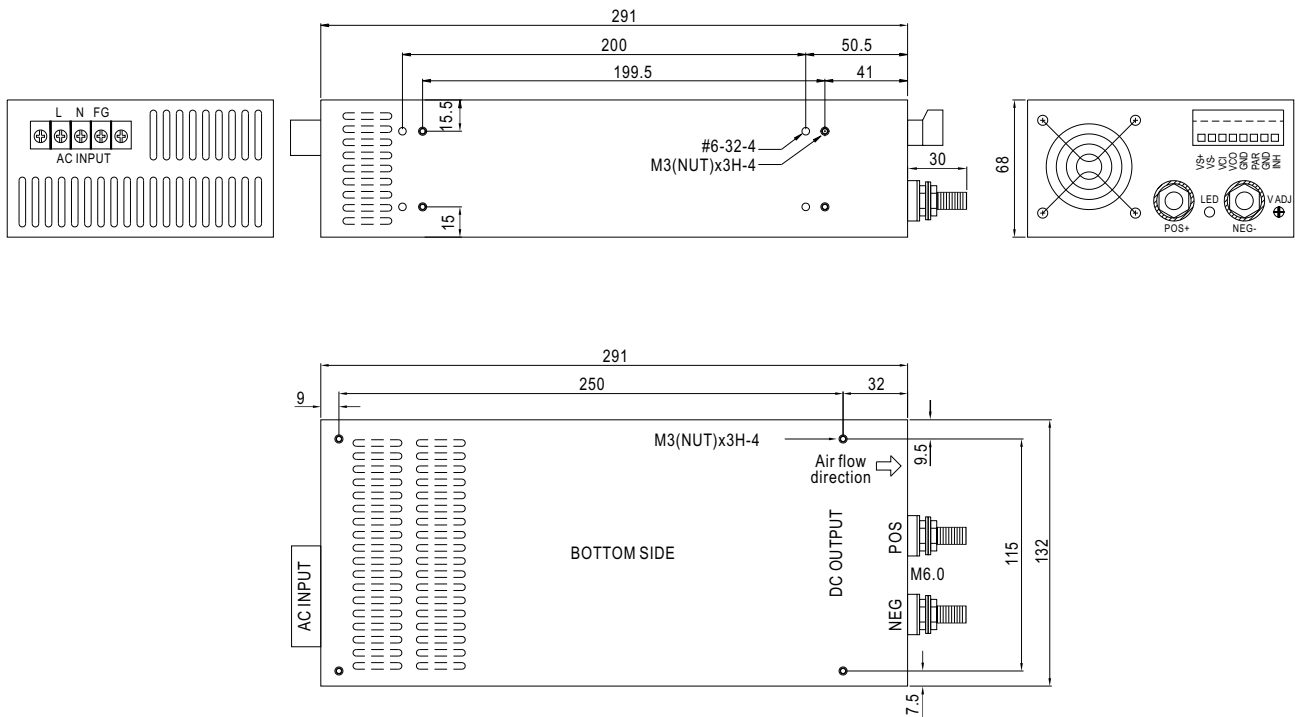


### SPECIFICATION

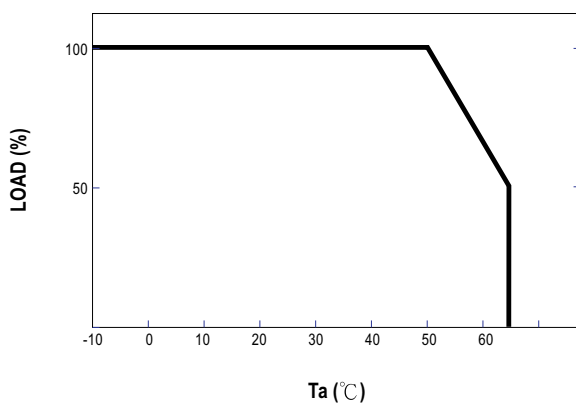
| ORDER NO.                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SCN-600-05                                                                                                                               | SCN-600-12 | SCN-600-15 | SCN-600-18 | SCN-600-24 | SCN-600-48 |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|------------|
| OUTPUT                    | SAFETY MODEL NO.                                                                                                                                                                                                                                                                                                                                                                                                                                          | 600S-N005                                                                                                                                | 600S-N012  | 600S-N015  | 600S-N018  | 600S-N024  | 600S-N048  |
|                           | DC VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5V                                                                                                                                       | 12V        | 15V        | 18V        | 24V        | 48V        |
|                           | RATED CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                             | 100A                                                                                                                                     | 50A        | 40A        | 33A        | 25A        | 12A        |
|                           | CURRENT RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0 ~ 100A                                                                                                                                 | 0 ~ 50A    | 0 ~ 40A    | 0 ~ 33A    | 0 ~ 25A    | 0 ~ 12A    |
|                           | RATED POWER                                                                                                                                                                                                                                                                                                                                                                                                                                               | 500W                                                                                                                                     | 600W       | 600W       | 594W       | 600W       | 576W       |
|                           | RIPPLE & NOISE (max.) Note.2                                                                                                                                                                                                                                                                                                                                                                                                                              | 100mVp-p                                                                                                                                 | 120mVp-p   | 150mVp-p   | 180mVp-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                                                                                                                                                                                                                                                                                                                                                                                                                                  | ±1.5%                                                                                                                                    | ±1.0%      | ±1.0%      | ±1.0%      | ±1.0%      | ±1.0%      |
|                           | LINE REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                           | ±0.5%                                                                                                                                    | ±0.5%      | ±0.5%      | ±0.5%      | ±0.5%      | ±0.5%      |
|                           | LOAD REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                           | ±1.0%                                                                                                                                    | ±0.5%      | ±0.5%      | ±0.5%      | ±0.5%      | ±0.5%      |
| SETUP, RISE, HOLD UP TIME |                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 800ms, 50ms, 16ms at full load                                                                                                           |            |            |            |            |            |
| INPUT                     | VOLTAGE RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                             | 90 ~ 130VAC / 180 ~ 260VAC selected by switch, 260 ~ 370VDC                                                                              |            |            |            |            |            |
|                           | FREQUENCY RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                           | 47 ~ 63Hz                                                                                                                                |            |            |            |            |            |
|                           | EFFICIENCY (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                         | 77%                                                                                                                                      | 80%        | 81%        | 82%        | 85%        | 87%        |
|                           | AC CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11A / 115VAC    7.0A / 230VAC                                                                                                            |            |            |            |            |            |
|                           | INRUSH CURRENT (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                     | 60A / 230VAC                                                                                                                             |            |            |            |            |            |
|                           | LEAKAGE CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.5mA / 240VAC                                                                                                                           |            |            |            |            |            |
| PROTECTION                | OVERLOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 101 ~ 115%      110 ~ 135% rated output power<br>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<br>Protection type : Shut down o/p voltage, re-power on to recover                              |            |            |            |            |            |
|                           | OVER TEMPERATURE                                                                                                                                                                                                                                                                                                                                                                                                                                          | >100℃ / measure by heat sink, near transformer<br>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% / °C (0 ~ 50℃)                                                                                                                    |            |            |            |            |            |
|                           | VIBRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10 ~ 200Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes                                                                  |            |            |            |            |            |
| SAFETY & EMC<br>(Note. 4) | SAFETY STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                                                          | UL60950-1, CSA22.2, IEC60950 approved                                                                                                    |            |            |            |            |            |
|                           | WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                         | I/P-O/P, I/P-FG:1500VAC                                                                                                                  |            |            |            |            |            |
|                           | ISOLATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                      | I/P-O/P, I/P-FG, 100M Ohms / 500VDC / 25℃ / 70% RH                                                                                       |            |            |            |            |            |
|                           | EMI CONDUCTION & RADIATION                                                                                                                                                                                                                                                                                                                                                                                                                                | Compliance to FCC part 15 class A                                                                                                        |            |            |            |            |            |
|                           | HARMONIC CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                          | ----                                                                                                                                     |            |            |            |            |            |
|                           | EMS IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                              | ----                                                                                                                                     |            |            |            |            |            |
| OTHERS                    | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 120Khrs min. MIL-HDBK-217F (25℃)                                                                                                         |            |            |            |            |            |
|                           | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 291*132*68mm (L*W*H)                                                                                                                     |            |            |            |            |            |
|                           | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.6kg; 8pcs/ 24kg/ 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.<br>2.Tolerance: includes set up tolerance, line regulation, load regulation.<br>3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.<br>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

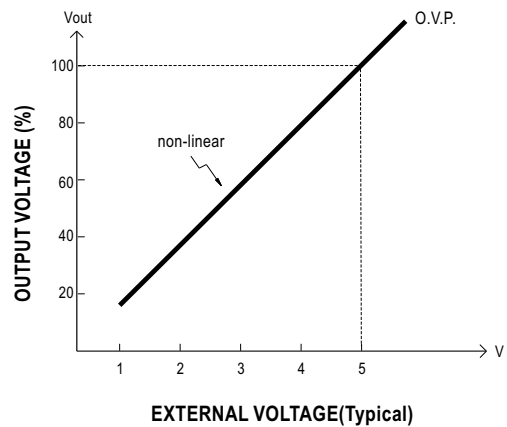
Unit:mm



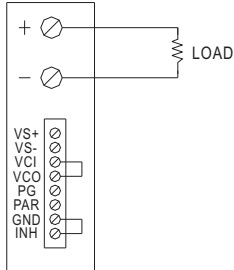
## Derating Curve



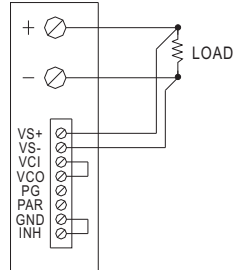
## External DC Control VS Output Voltage



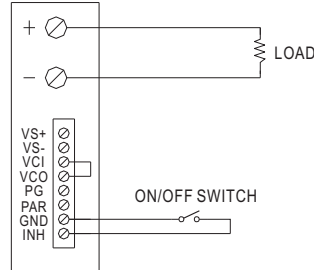
## Control terminal instruction manual



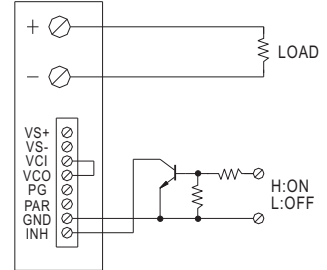
USING INTERNAL VOLTAGE CONTROL



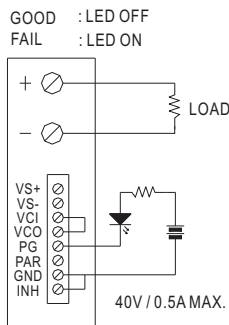
REMOTE SENSING



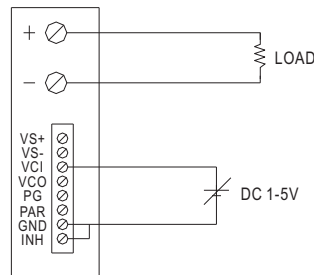
ON/OFF CONTROL BY SWITCH



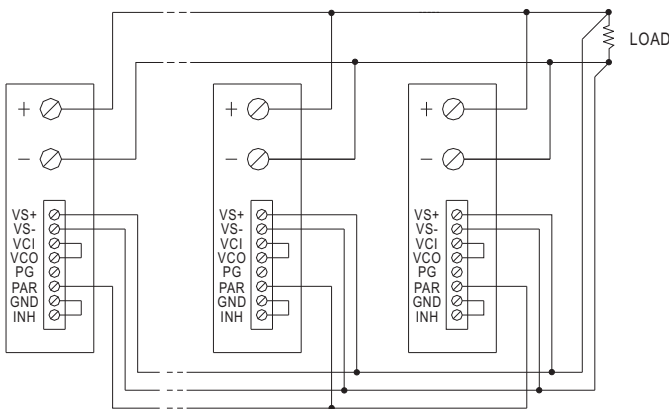
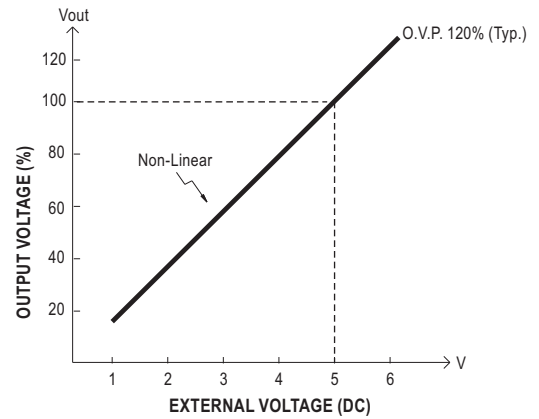
ON/OFF CONTROL BY TRANSISTOR



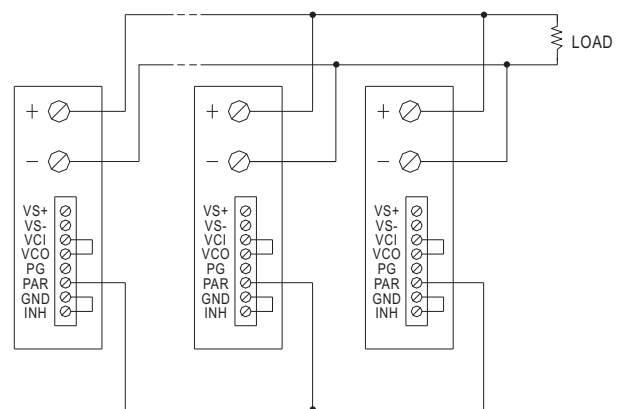
POWER GOOD SIGNAL



OUTPUT VOLTAGE ADJUST WITH DC 1-5V



PARALLEL OPERATION WITH REMOTE SENSING



PARALLEL OPERATION WITHOUT REMOTE SENSING

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Mean Well:](#)

[SCN-600-15](#) [SCN-600-24](#) [SCN-600-05](#) [SCN-600-12](#) [SCN-600-48](#)