



# MEAN WELL

## SCN-800-48

*See full Datasheet below...*

**onlinecomponents.com**

*THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS*

**BUY NOW**



**BUY NOW**

masterelectronics.com & onlinecomponents.com  
are **authorized** e-commerce distributors  
of electronic components.



## 800W Single Output With Parallel Function

## SCN-800 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

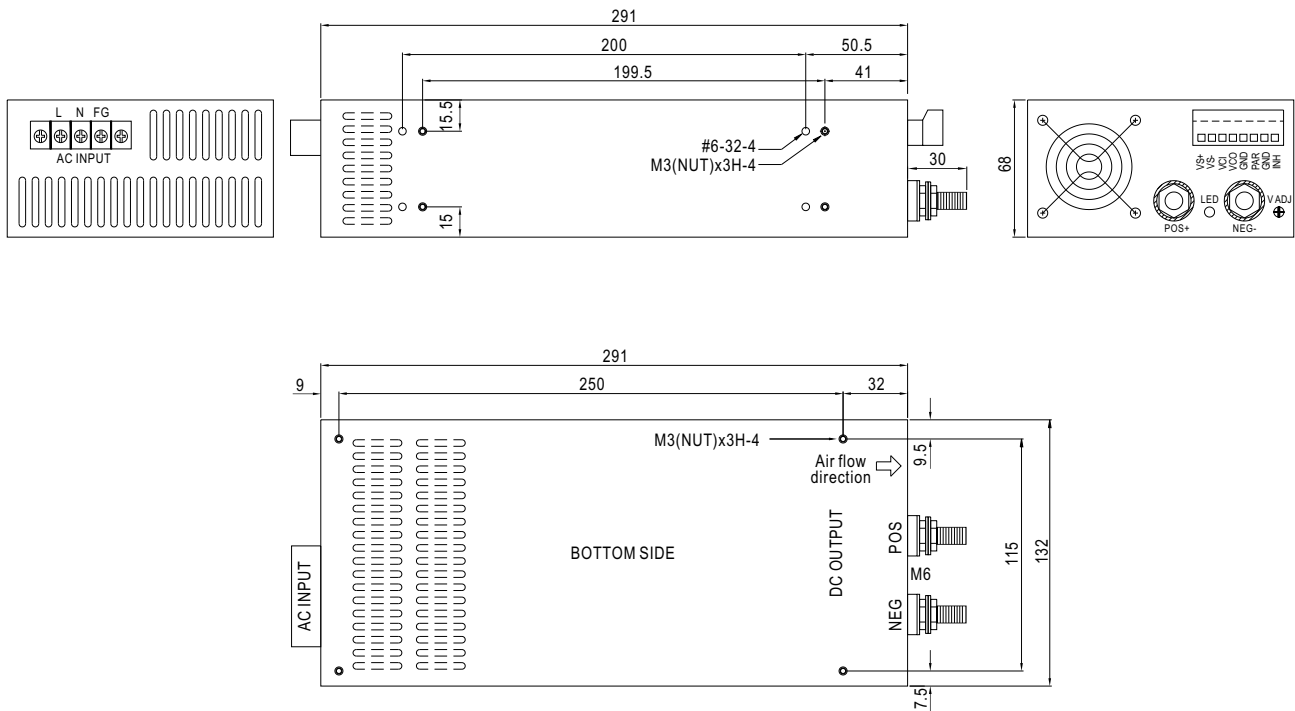
Parallel

### SPECIFICATION

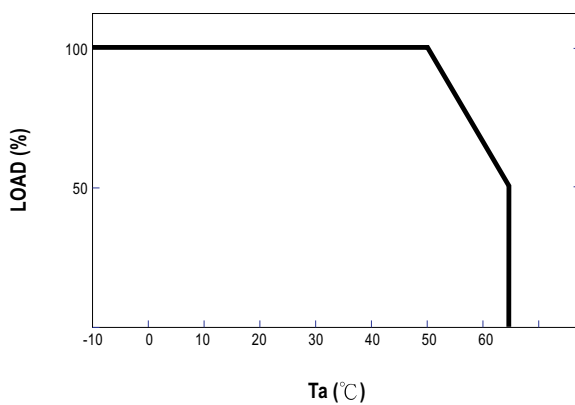
| ORDER NO.                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SCN-800-12                                                                                                               | SCN-800-15 | SCN-800-24 | SCN-800-48 |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------|------------|------------|
| OUTPUT                    | SAFETY MODEL NO.                                                                                                                                                                                                                                                                                                                                                                                                                                          | 800S-N012                                                                                                                | 800S-N015  | 800S-N024  | 800S-N048  |
|                           | DC VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12V                                                                                                                      | 15V        | 24V        | 48V        |
|                           | RATED CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                             | 66A                                                                                                                      | 54A        | 33A        | 16.6A      |
|                           | CURRENT RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0 ~ 66A                                                                                                                  | 0 ~ 54A    | 0 ~ 33A    | 0 ~ 16.6A  |
|                           | RATED POWER                                                                                                                                                                                                                                                                                                                                                                                                                                               | 792W                                                                                                                     | 810W       | 792W       | 796W       |
|                           | RIPPLE & NOISE (max.) Note.2                                                                                                                                                                                                                                                                                                                                                                                                                              | 150mVp-p                                                                                                                 | 150mVp-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                                                                                                                                                                                                                                                                                                                                                                                                                                  | ±1.0%                                                                                                                    | ±1.0%      | ±1.0%      | ±1.0%      |
|                           | LINE REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                           | ±0.5%                                                                                                                    | ±0.5%      | ±0.5%      | ±0.5%      |
|                           | LOAD REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                           | ±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.)                                                                                                                                                                                                                                                                                                                                                                                                                                         | 80%                                                                                                                      | 81%        | 85%        | 87%        |
|                           | AC CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                | 17A / 115VAC   9A / 230VAC                                                                                               |            |            |            |
|                           | INRUSH CURRENT (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                     | 60A / 230VAC                                                                                                             |            |            |            |
|                           | LEAKAGE CURRENT (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3.5mA / 240VAC                                                                                                           |            |            |            |
| PROTECTION                | OVERLOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 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 TEMP., 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                                                                                                                                                                                                                                                                                                                                                                                                                                          | Design refer to UL1950, CSA22.2, IEC60950                                                                                |            |            |            |
|                           | 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                                                                                                                                                                                                                                                                                                                                                                                                                                | Design refer 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                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.3kg; 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

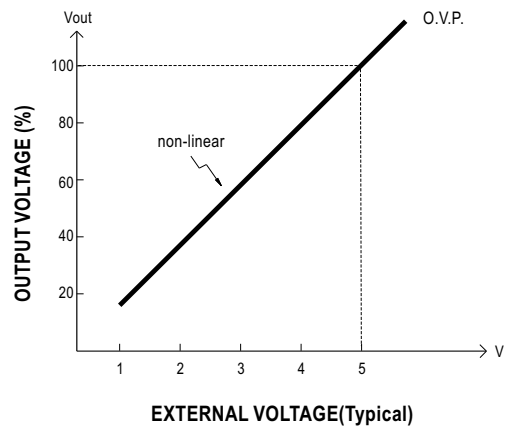
Unit:mm



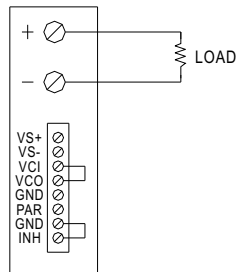
## Derating Curve



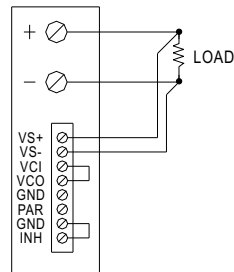
## External DC Control VS Output Voltage



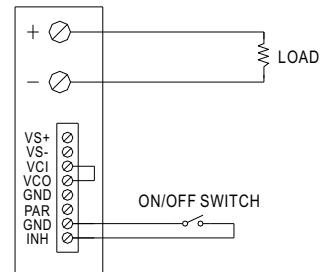
■ Control terminal instruction manual



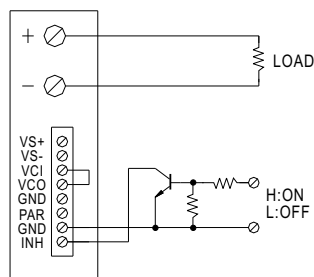
USING INTERNAL VOLTAGE CONTROL



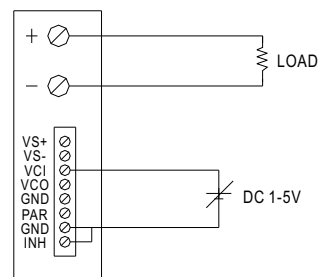
REMOTE SENSING



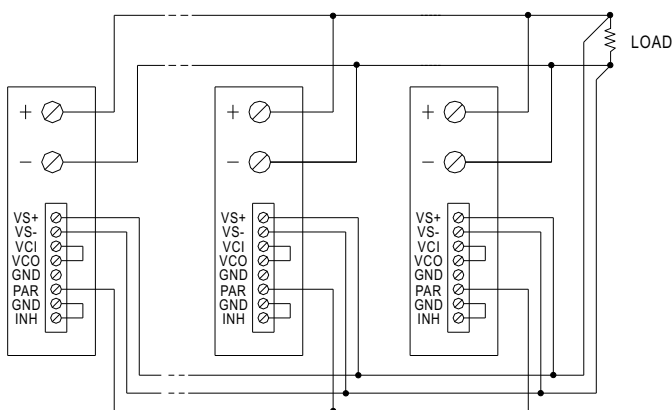
ON/OFF CONTROL BY SWITCH



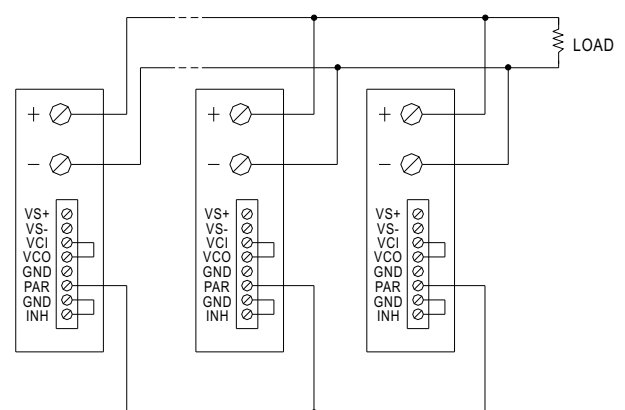
ON/OFF CONTROL BY TRANSISTOR



OUTPUT VOLTAGE ADJUST WITH DC 1-5V



PARALLEL OPERATION WITH REMOTE SENSING



PARALLEL OPERATION