



Features

- Current Sharing capability
- Programmable Output Voltage
- Universal AC Input
- Short Circuit, overload, over voltage, over temperature protected
- Forced air cooling by built-in DC fan
- Power Failure Signal
- Built-in Remote Sense
- Built-in Remote Inhibit
- 2 year warranty



| Model | Output ¹ | Output Current | | Max. Power | Ripple & Noise ³ | | |
|-------------|---------------------|----------------|----------------------|------------|-----------------------------|-------|------------|
| | | Minimum | Maximum ² | | Regulation | (Vpp) | Efficiency |
| VSCP-800-09 | 9 V | 0 A | 44/88 A | 800 W | <1% | 1% | 83% |
| VSCP-800-12 | 12 V | 0 A | 33/66 A | 800 W | <1% | 1% | 84% |
| VSCP-800-15 | 15 V | 0 A | 26/53 A | 800 W | <1% | 1% | 85% |
| VSCP-800-18 | 18 V | 0 A | 22/44.4 A | 800 W | <1% | 1% | 85% |
| VSCP-800-24 | 24 V | 0 A | 16/33 A | 800 W | <1% | 1% | 88% |
| VSCP-800-36 | 36 V | 0 A | 11/22.2 A | 800 W | <1% | 1% | 88% |
| VSCP-800-48 | 48 V | 0 A | 8/16 A | 800 W | <1% | 1% | 89% |
| VSCP-800-60 | 60 V | 0 A | 6/13 A | 800 W | <1% | 1% | 90% |

Notes:

1 Output voltage is measured at output power connector.

2 Maximum current is measured at 100-120V input / 200-240V input

3 Ripple and noise is measured from 10 KHz to 20 MHz at output terminals with 0.1 μ F ceramic capacitor and a 22 μ F electrolytic capacitor in parallel.

Input

| Parameter | Conditions/Description | Min | Nom | Max | Units |
|-----------------|--|-----|-----|-----|-------|
| Input frequency | | 47 | | 63 | Hz |
| Input voltage | 100~120 / 200~240 VAC (see derating curve) (130~185 / 260~370 VDC) (see derating curve) | 100 | | 240 | VAC |
| Inrush Current | Peak measured at 230 VAC at full load, cold start | | | 60 | A |
| Input Current | at 230 VAC | | 4.5 | | A |



Output

| Parameter | Conditions/Description | Min | Nom | Max | Units |
|-----------------------|---|------|------|------|-------|
| Hold-up time | Full load at 230 VAC | | | 12 | mS |
| Programming | Output voltage programmable through external 0~5V control voltage on VCI. Control voltage can also be obtained from VCO via a 470 KOhm pot. See application diagrams. | 25 | | 100 | % |
| Voltage adjustability | Typical adjustment by potentiometer 25%-100% Adjustment by 1-5Vdc external control | -7.5 | | +7.5 | % |
| Temp. coefficient | | | 0.04 | | %/°C |
| Remote Sense | Designated as (VS+) and (VS-). Total voltage compensation for cable losses with respect to the main output. | | | | |
| Remote Inhibit | Designated as (INH), requires a low signal to inhibit the output. | | | | |
| Current Sharing | Designated as (PAR), use in parallel for forced current sharing function. | | | | |

Protection Circuit

| Parameter | Conditions/Description | Min | Nom | Max | Units |
|-------------|---|-----|-----|-----|-------|
| Overload | Current limiting 3 times (1.5", 3.0", 5.0"), then intelligent auto recovery before shutdown | | | | |
| Overvoltage | | 110 | | 135 | % |

General and Safety

| Parameter | Conditions/Description | Min | Nom | Max | Units |
|-------------------|--|-----|-----|-----|-------|
| Operating temp. | | 0 | | 50 | °C |
| Operating humid. | | 20% | | 90% | RH |
| Storage temp. | | -20 | | 85 | °C |
| Storage humid. | | 10 | | 95% | RH |
| EMC | EN55022, EN610000-4-2,3,4,5,6,8,11, EN61000-3-2-3 ENV50204 | | | | |
| Safety regulation | Approved to UL/cUL 1950, TUV EN60950 | | | | |
| Leakage current | at 240 VAC | | | 3.5 | mA |

Mechanical

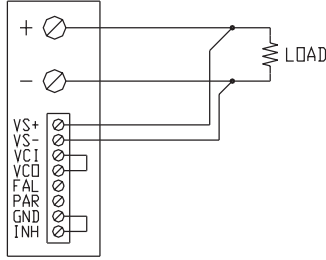
| Parameter | Conditions/Description | Min | Nom | Max | Units |
|-----------|---------------------------|-----|-----|-----|-------|
| Weight | | | 2.3 | | Kg |
| Enclosure | 290(L) x 120(W) x 67.5(H) | | | | mm |

Logic Connector

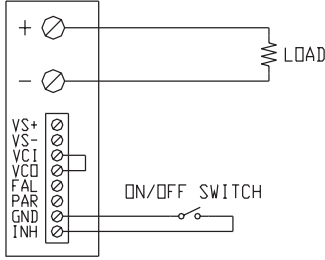
| Parameter | Conditions/Description |
|------------------|--|
| Pin Assignments: | <ol style="list-style-type: none"> 1. INH - Remote On-Off / Remote Inhibit 2. GND - Return / Output Ground 3. PAR - Current Sharing / Parallel function 4. FAL - AC Fail Detect (must use 2KΩ pull up resistor) 5. VCO - Reference output voltage (5-10 VDC) to be used for output programming 6. VCI - Command input voltage for output programming 7. VS(-) - Remote Sense (-) 8. VS(+) - Remote Sense (+) |



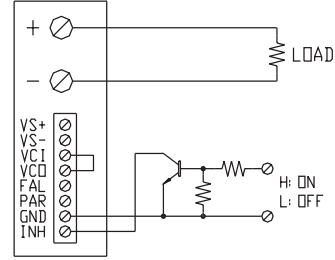
Logic Connections



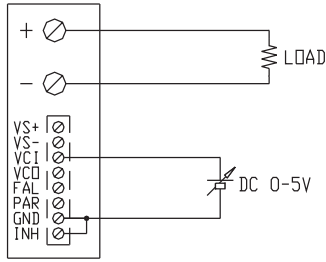
REMOTE SENSING



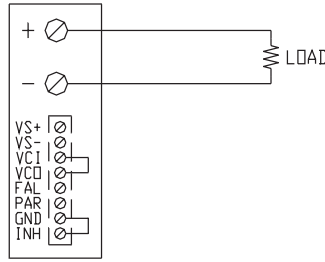
ON/OFF CONTROL BY SWITCH



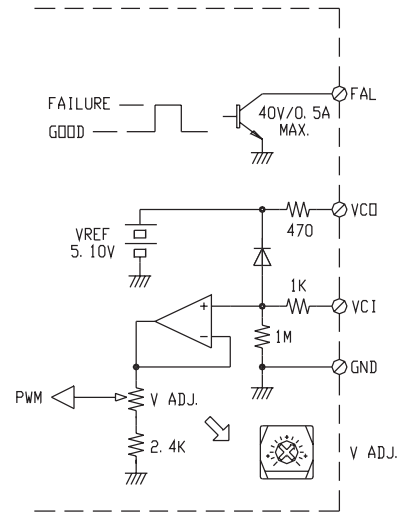
ON/OFF CONTROL BY TRANSISTOR



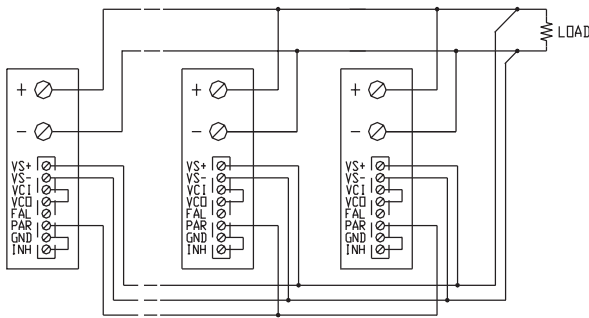
OUTPUT VOLTAGE ADJUST WITH DC 0-5V



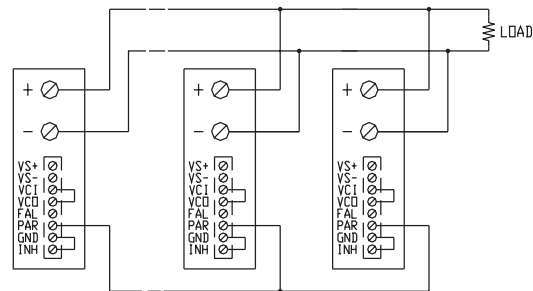
USING INTERNAL VOLTAGE CONTROL



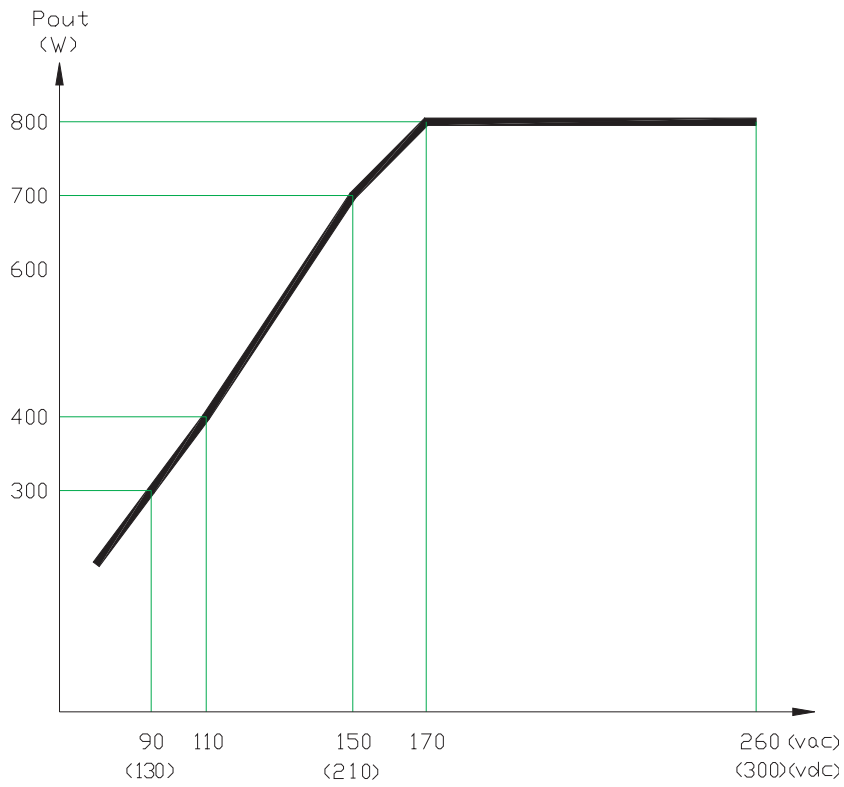
VCI AND VCD SIGNAL



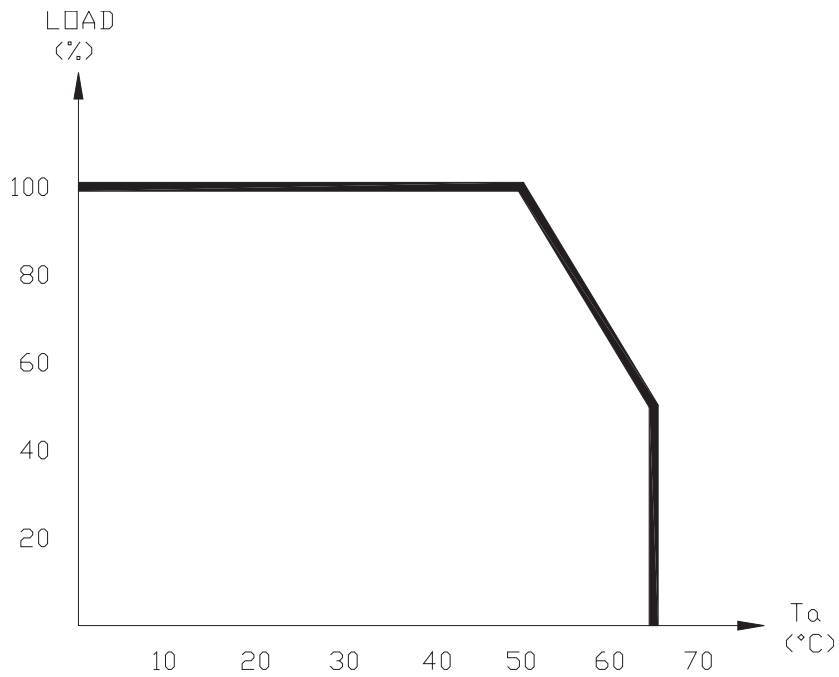
PARALLEL OPERATION WITH REMOTE SENSING



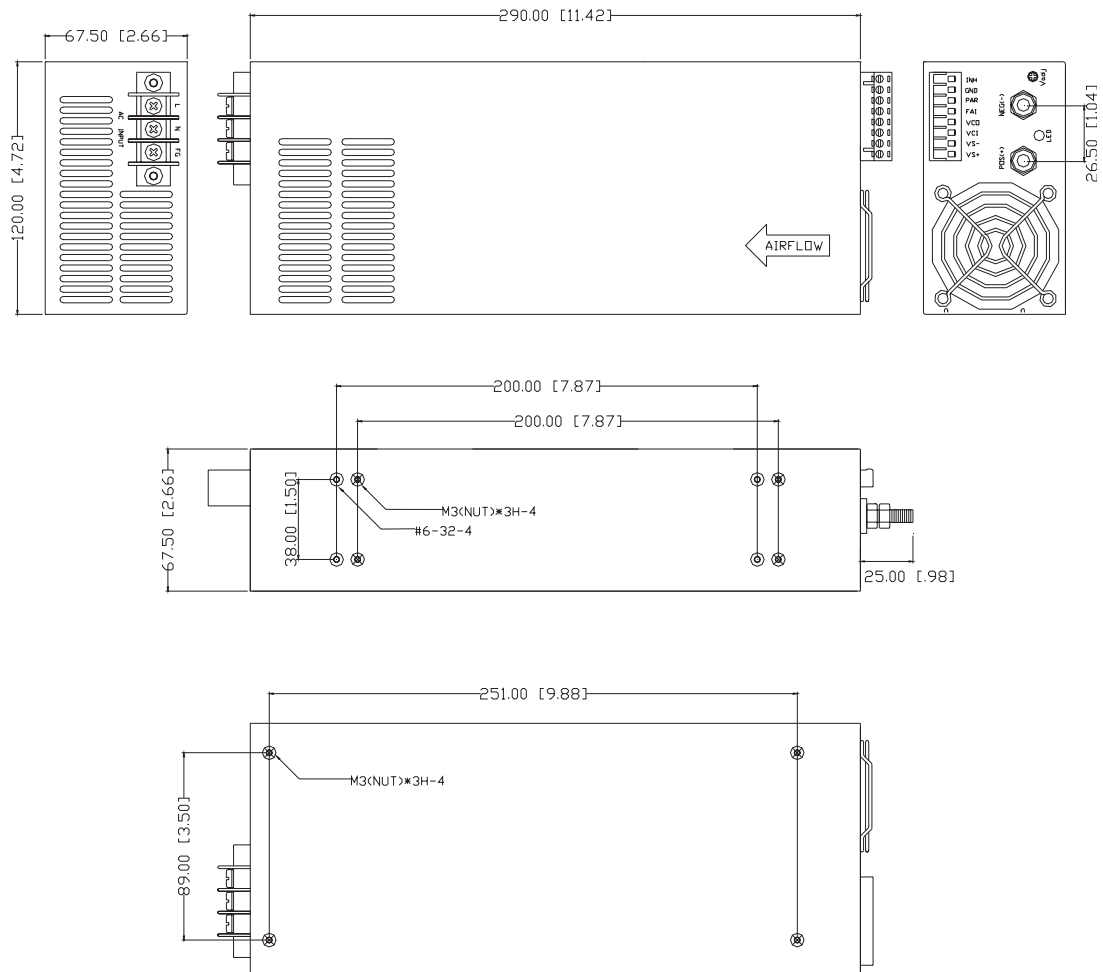
PARALLEL OPERATION WITHOUT REMOTE SENSING



Output Power vs. Input Voltage derating curve



Derating Curve

Mechanical Drawing

CONTROL PIN ASSIGNMENT

| | |
|------|--|
| VS+ | Output Voltage Remote Sense+ |
| VS - | Output Voltage Remote Sense - |
| VCI | Command input voltage for output programming |
| VCO | 5-10 VDC reference for output programming |
| FAL | Power Failure detect |
| PAR | Current Sharing / Parallel function |
| GND | Return / Output Ground |
| INH | Inhibit / Remote On-Off |