

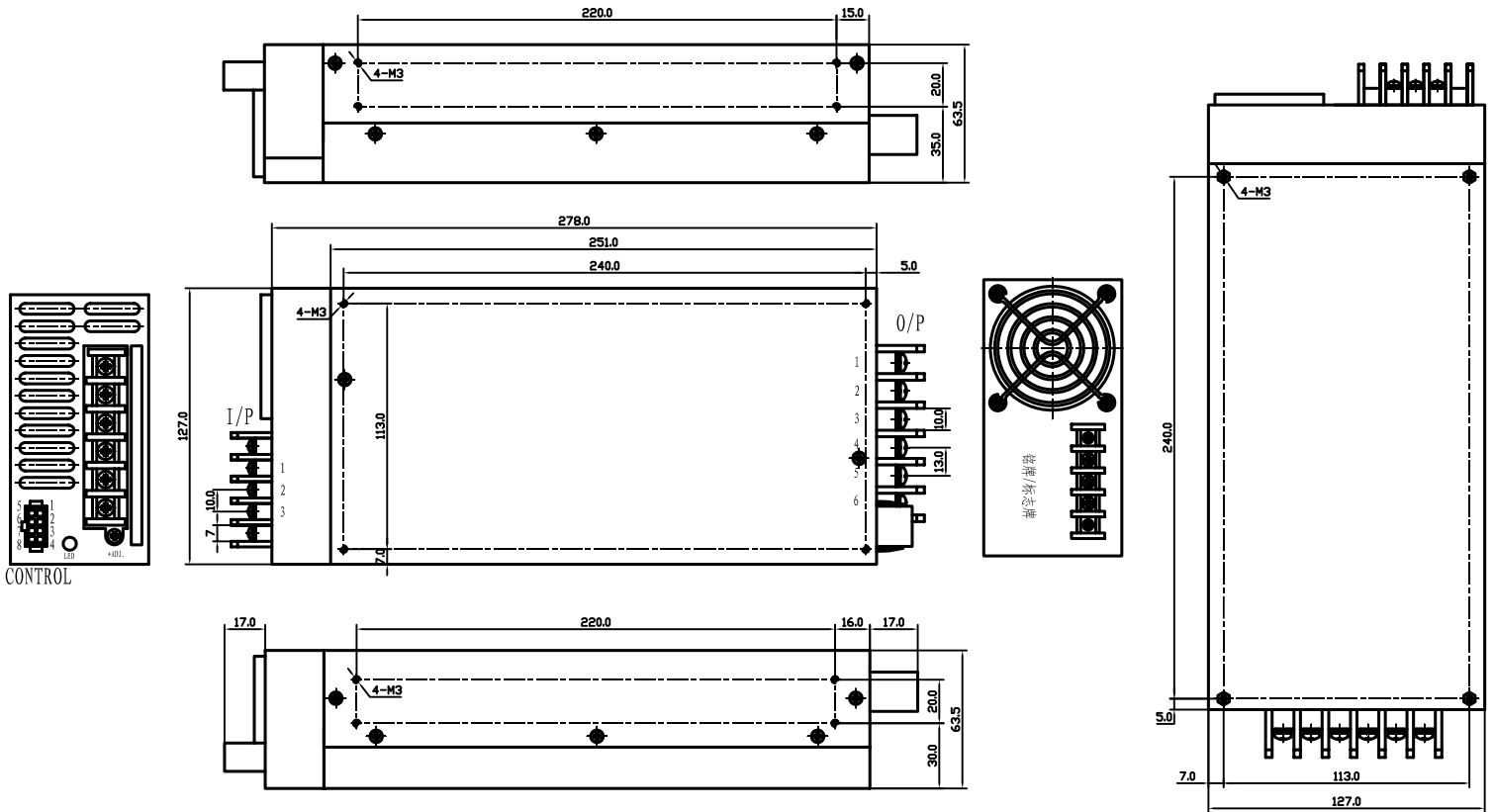
Features:

- High efficiency, high reliability
- Universal AC input/ full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit/ Over load/ Over voltage/ Over temperature
- Forced air cooling by built-in DC fan
- Current sharing up to 2000W(3+1)
- With power good and fail signal output
- Built-in remote ON-OFF control and remote sense function
- 3 years warranty Dimensions: 278*127*63.5mm (L*W*H)



| MODEL | | HPSP-500 -5 | HPSP-50 0-12 | HPSP-50 0-13.5 | HPSP-500 -15 | HPSP-500 -24 | HPSP-500 -27 | HPSP-500 -48 | |
|-------------|---|---|-----------------|-------------------|-----------------|-----------------|-----------------|-----------------|--|
| OUTPUT | DC VOLTAGE | 5V | 12V | 13.5V | 15V | 24V | 27V | 48V | |
| | VOLTAGE TOLERANCE | ±2.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | |
| | RATED CURRENT | 80A | 41.5A | 37A | 33A | 20.8A | 18.5A | 10.5A | |
| | CURRENT RANGE | 0-80A | 0-41.5A | 0-37A | 0-33A | 0-20.8A | 0-18.5A | 0-10.5A | |
| | RATED POWER | 400W | 498W | 499.5W | 495W | 499.2W | 499.5W | 504W | |
| | RIPPLE & NOISE | 100mVp-p | 150mVp-p | 150mVp-p | 150mVp-p | 150mVp-p | 150mVp-p | 200mVp-p | |
| | DC ADJUSTMENT RANGE | -5%, +10% | -17%, +10% | ±11% | -10%, +20% | -17%, +10% | ±11% | -15%, +17% | |
| | SETUP, RISE, HOLD TIME | 1500ms,50ms,15ms at full load | | | | | | | |
| INPUT | VOLTAGE RANGE | 90~264 VAC 47-63Hz; 127~370VDC | | | | | | | |
| | POWER FACTOR | 0.95/230VAC 0.98/100VAC at full load | | | | | | | |
| | AC CURRENT | 7A/115 VAC 3.5A/230VAC | | | | | | | |
| | EFFICIENCY | 76% | 82% | 82% | 82% | 84% | 84% | 86% | |
| | INRUSH CURRENT | Cold start 20A/115VAC 40A/230VAC | | | | | | | |
| | LEAKAGE CURRENT | <1mA/240VAC | | | | | | | |
| PROTECTION | OVER LOAD | 110%~125% | | | | | | | |
| | | Protection type: Constant current limiting, recovers automatically after fault condition is removed | | | | | | | |
| | OVER VOLTAGE | 115%~135% | | | | | | | |
| | | Protection type: Shut down o/p voltage, re-power on to recover | | | | | | | |
| OVER TEMP. | RTH2≥95℃ (Detect on heatsink of Q1,Q7 power transistor & L3 output choke) | | | | | | | | |
| | Protection type: Shut down o/p voltage, re-power on to recover | | | | | | | | |
| ENVIRONMENT | WORKING TEMP., HUMIDITY | -10℃~+60℃; 20%~90 %RH | | | | | | | |
| | STORATE TEMP., HUMIDITY | -20℃~+85℃; 10%~95 %RH | | | | | | | |
| | VIBRATION | 10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes | | | | | | | |
| SAFETY | 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 | | | | | | | |
| STANDARD | SAFETY STANDARD | Design refer to UL1950,TUV EN60950 | | | | | | | |
| | EMC STANDARD | Design refer to EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11;ENV50204,EN55024 | | | | | | | |
| OTHERS | WEIGHT | 2.6Kg | | | | | | | |
| | PACKING | 6pcs/15.7Kg/1.45 CUFT | | | | | | | |
| NOTE | <ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ & 47 μ parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. 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. | | | | | | | | |

Outline and Dimension:



AC Input Terminal Pin No. Assignment:

| Pin No. | Assignment |
|---------|------------|
| 1 | AC/L |
| 2 | AC/N |
| 3 | FG |

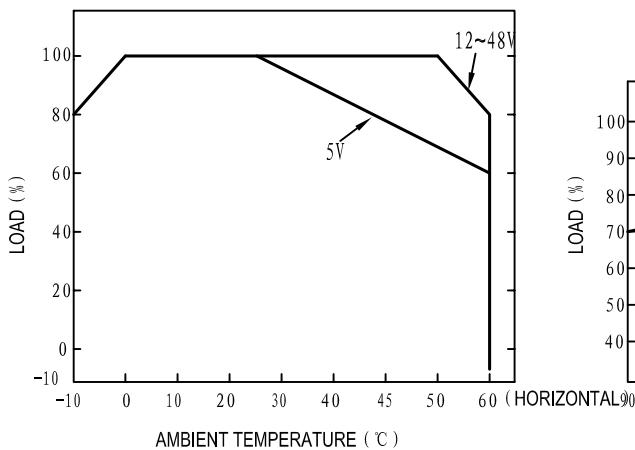
DC Output Terminal Pin No. Assignment:

| Pin No. | Assignment |
|---------|--------------|
| 1~3 | DC OUTPUT +V |
| 4~6 | DC OUTPUT -V |

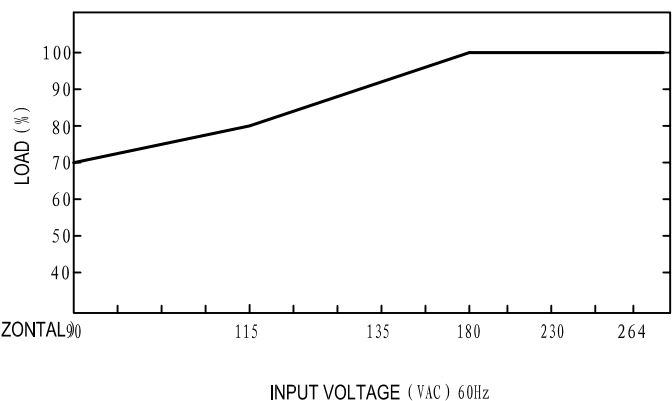
Control Pin No. Assignment : MOLEX 5559-NP uses 5558 male crimp terminal

| Pin No. | Assignment | Pin No. | Assignment | Mating Connector | Terminal |
|---------|------------------|---------|-----------------------|------------------|---|
| 1 | P(Current share) | 5 | NC | MOLEX 5557-NR | MOLEX 5556 Female crimp Terminal receptacle |
| 2 | -S | 6 | PF(Power fail signal) | | |
| 3 | G | 7 | +S | | |
| 4 | RC- | 8 | RC+ | | |

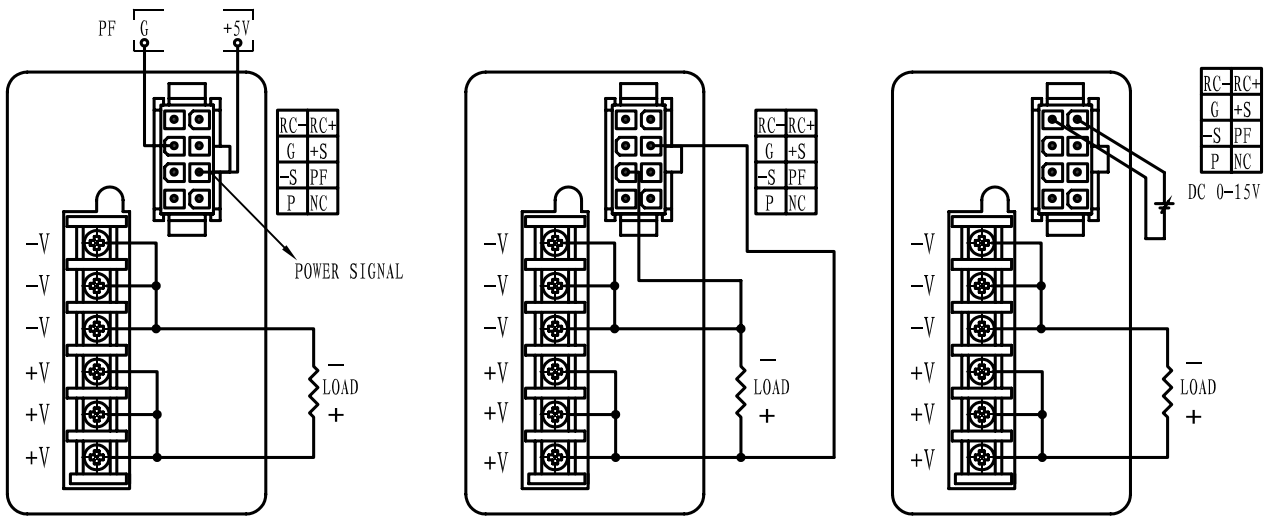
Derating Curve



Output Derating VS Input Voltage



■ Control Terminal Instruction Manual:



Power Fail Signal

Remote Sensing

Remote Control

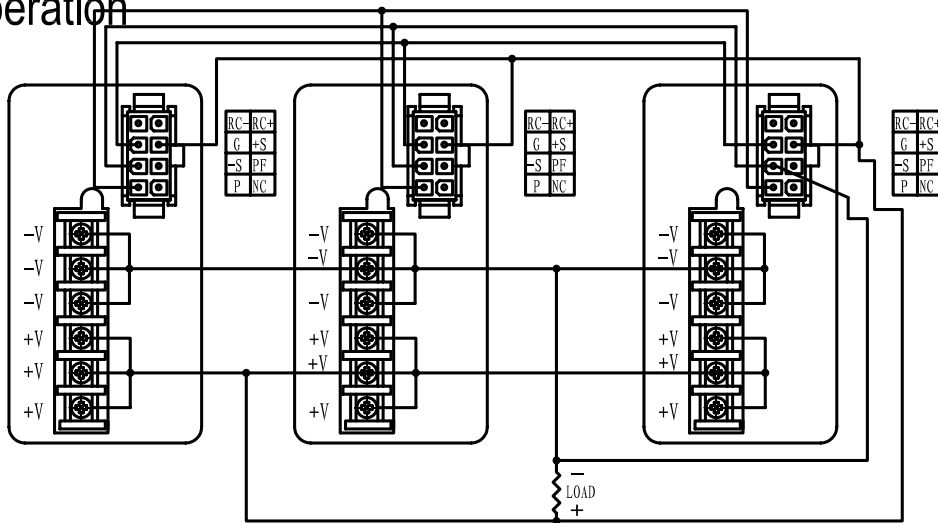
PF Fail Signal: Normal: Voltage is 5V between "G" and "PF"

Fail: Voltage is 0V between "G" and "PF"

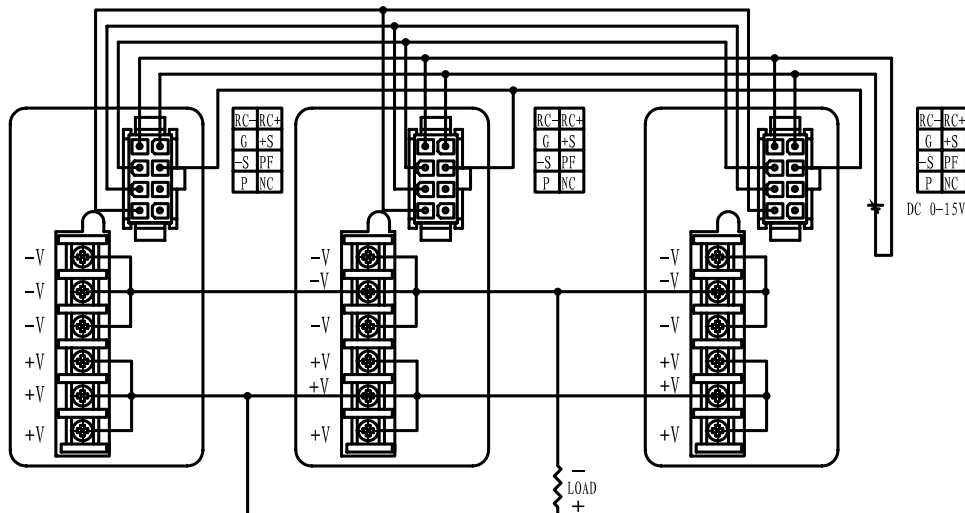
Power ON: When VRC+, RC-=0~0.8V or Open

Power OFF: When VRC+, RC-=4~10V

■ Parallel Operation



Parallel Operation With Remote Sensing



Parallel Operation With Remote Sensing