

**SPECIFICATION** 



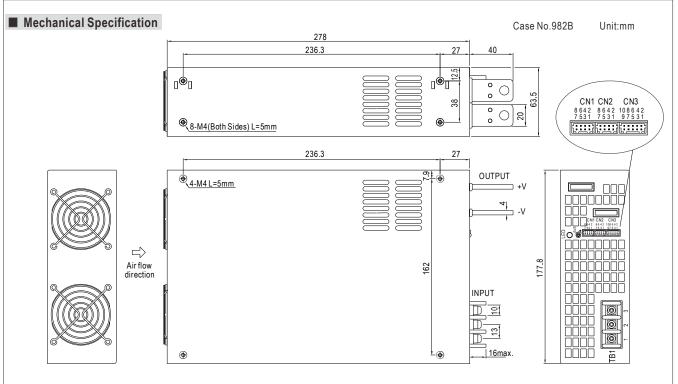
# ■ Features :

- AC input 180 ~ 264VAC
- · AC input active surge current limiting
- High efficiency up to 91.5%
- Built-in active PFC function,PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature / Fan alarm
- Forced air cooling by built-in DC with fan speed control function
- Output voltage can be trimmed between 20~110% of the rated output voltage
- High power density 15.6W/inch³
- · Current sharing up to 3 units
- Alarm signal output (relay contact and TTL signal)
- Built-in 12V/0.1A auxiliary output for remote control
- Built-in remote ON-OFF control
- Built-in remote sense function
- 5 years warranty



| AGE URRENT I RANGE DWER NOISE (max.) Note. E ADJ. RANGE TOLERANCE Note. BULATION GULATION ISE TIME TIME (Typ.) E RANGE ACTOR (Typ.) EVY (Typ.) E CURRENT (Typ.) E CURRENT AD LTAGE MPERATURE   | 10.8 ~ 13.2V<br>±1.0%<br>±0.5%<br>±0.5%<br>1000ms, 80ms at full<br>10ms at full load<br>180 ~ 264VAC 2<br>47 ~ 63Hz<br>0.95/230VAC at full load<br>87.5%<br>20A/180VAC 16<br>60A/230VAC<br><2.0mA / 240VAC<br>100 ~ 112% rated out                           | 254 ~ 370VDC  pad  SA/230VAC  tput power  | 24V<br>125A<br>0 ~ 125A<br>3000W<br>150mVp-p<br>22 ~ 28V<br>±1.0%<br>±0.5%<br>±0.5%  |  | 48V 62.5A 0~62.5A 3000W 200mVp-p 43~56V ±1.0% ±0.5% ±0.5%   |  |  |  |  |
|--|--|---|--|--|---|--|--|--|--|
| URRENT I RANGE DWER NOISE (max.) Note. E ADJ. RANGE TOLERANCE Note.3 ULATION GULATION ISE TIME TIME (Typ.) E RANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.) E CURRENT (Typ.) CURRENT  | 0 ~ 200A 2400W 2 150mVp-p 10.8 ~ 13.2V 8 ±1.0% ±0.5% 1000ms, 80ms at full 10ms at full load 180 ~ 264VAC 47 ~ 63Hz 0.95/230VAC at full lo 87.5% 20A/180VAC <2.0mA / 240VAC 100 ~ 112% rated out User adjustable contin                                       | 254 ~ 370VDC  pad  SA/230VAC  tput power  | 125A<br>0 ~ 125A<br>3000W<br>150mVp-p<br>22 ~ 28V<br>±1.0%<br>±0.5%<br>±0.5%   |  | 62.5A<br>0 ~ 62.5A<br>3000W<br>200mVp-p<br>43 ~ 56V<br>±1.0%<br>±0.5%<br>±0.5%  |  |  |  |  |
| OWER  NOISE (max.) Note.: ADJ. RANGE TOLERANCE Note.: BULATION GULATION ISE TIME TIME (Typ.) RANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.) CURRENT (Typ.) CURRENT AD   | 2400W 2 150mVp-p 10.8 ~ 13.2V 3 ±1.0% ±0.5% 1000ms, 80ms at full 10ms at full load 180 ~ 264VAC 47 ~ 63Hz 0.95/230VAC at full load 87.5% 20A/180VAC <2.0mA / 240VAC 100 ~ 112% rated out User adjustable contin  | 254 ~ 370VDC  pad  SA/230VAC  tput power  | 3000W<br>150mVp-p<br>22 ~ 28V<br>±1.0%<br>±0.5%<br>±0.5%   |  | 3000W 200mVp-p 43 ~ 56V ±1.0% ±0.5% ±0.5%   |  |  |  |  |
| NOISE (max.) Note.: ADJ. RANGE TOLERANCE Note.: BULATION GULATION ISE TIME TIME (Typ.) E RANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.) EURRENT (Typ.) E CURRENT AD   | 2 150mVp-p 10.8 ~ 13.2V 10.5% 10.5% 1000ms, 80ms at full 10ms at full load 180 ~ 264VAC 47 ~ 63Hz 0.95/230VAC at full load 87.5% 20A/180VAC 160A/230VAC 100 ~ 112% rated out User adjustable contin  | 254 ~ 370VDC  pad  SA/230VAC  tput power  | 150mVp-p<br>22 ~ 28V<br>±1.0%<br>±0.5%<br>±0.5%  |  | 3000W 200mVp-p 43 ~ 56V ±1.0% ±0.5% ±0.5%   |  |  |  |  |
| ADJ. RANGE TOLERANCE Note.3 BULATION GULATION ISE TIME TIME (Typ.) ERANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.) EURRENT (Typ.) E CURRENT AD  | 10.8 ~ 13.2V<br>±1.0%<br>±0.5%<br>±0.5%<br>1000ms, 80ms at full<br>10ms at full load<br>180 ~ 264VAC 2<br>47 ~ 63Hz<br>0.95/230VAC at full load<br>87.5%<br>20A/180VAC 16<br>60A/230VAC<br><2.0mA / 240VAC<br>100 ~ 112% rated out<br>User adjustable contin | 254 ~ 370VDC  pad  SA/230VAC  tput power  | 22 ~ 28V<br>±1.0%<br>±0.5%<br>±0.5%  |  | 43~56V<br>±1.0%<br>±0.5%<br>±0.5%   |  |  |  |  |
| ADJ. RANGE TOLERANCE Note.3 BULATION GULATION ISE TIME TIME (Typ.) ERANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.) EURRENT (Typ.) E CURRENT AD  | 10.8 ~ 13.2V<br>±1.0%<br>±0.5%<br>±0.5%<br>1000ms, 80ms at full<br>10ms at full load<br>180 ~ 264VAC 2<br>47 ~ 63Hz<br>0.95/230VAC at full load<br>87.5%<br>20A/180VAC 16<br>60A/230VAC<br><2.0mA / 240VAC<br>100 ~ 112% rated out<br>User adjustable contin | 254 ~ 370VDC  pad  SA/230VAC  tput power  | 22 ~ 28V<br>±1.0%<br>±0.5%<br>±0.5%  |  | 43~56V<br>±1.0%<br>±0.5%<br>±0.5%   |  |  |  |  |
| TOLERANCE Note.3 BULATION GULATION ISE TIME TIME (Typ.) ERANGE NCY RANGE ACTOR (Typ.) ENT (Typ.) EURRENT (Typ.) E CURRENT AD   | ### ±1.0% ####################################   | 254 ~ 370VDC  pad  SA/230VAC  tput power  | ±1.0%<br>±0.5%<br>±0.5%  |  | ±1.0%<br>±0.5%<br>±0.5%   |  |  |  |  |
| GULATION GULATION ISE TIME TIME (Typ.) ERANGE ICY RANGE IACTOR (Typ.) CY (Typ.) ENT (Typ.) CURRENT (Typ.) E CURRENT AD   | ±0.5% ±0.5% 1000ms, 80ms at full 10ms at full load 180 ~ 264VAC 247 ~ 63Hz 0.95/230VAC at full load 87.5% 20A/180VAC <2.0mA / 240VAC 100 ~ 112% rated out User adjustable contin   | 254 ~ 370VDC  pad  SA/230VAC  tput power  | ±0.5%<br>±0.5%   |  | ±0.5%<br>±0.5%  |  |  |  |  |
| GULATION ISE TIME TIME (Typ.) E RANGE NCY RANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.) CURRENT (Typ.) E CURRENT   | ±0.5%  1000ms, 80ms at full 10ms at full load  180 ~ 264VAC 2 47 ~ 63Hz  0.95/230VAC at full load  87.5%  20A/180VAC 16 60A/230VAC  <2.0mA / 240VAC  100 ~ 112% rated out User adjustable contin   | 254 ~ 370VDC  pad  SA/230VAC  tput power  | ±0.5%  |  | 土0.5%   |  |  |  |  |
| ISE TIME TIME (Typ.) E RANGE NCY RANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.) CURRENT (Typ.) E CURRENT AD   | 1000ms, 80ms at full<br>10ms at full load<br>180 ~ 264VAC 2<br>47 ~ 63Hz<br>0.95/230VAC at full load<br>87.5%<br>20A/180VAC 16<br>60A/230VAC<br><2.0mA / 240VAC<br>100 ~ 112% rated out<br>User adjustable contin  | 254 ~ 370VDC  pad  SA/230VAC  tput power  |  |  |   |  |  |  |  |
| TIME (Typ.)  RANGE  CY RANGE  ACTOR (Typ.)  CY (Typ.)  ENT (Typ.)  CURRENT (Typ.)  CURRENT  AD   | 10ms at full load<br>180 ~ 264VAC 2<br>47 ~ 63Hz<br>0.95/230VAC at full load<br>87.5%<br>20A/180VAC 16<br>60A/230VAC<br><2.0mA / 240VAC<br>100 ~ 112% rated out<br>User adjustable contin  | 254 ~ 370VDC  pad  SA/230VAC  tput power  | 90%  |  | 91.5%   |  |  |  |  |
| E RANGE NCY RANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.) CURRENT (Typ.) E CURRENT AD  | 180 ~ 264VAC 2<br>47 ~ 63Hz<br>0.95/230VAC at full Id<br>87.5%<br>20A/180VAC 16<br>60A/230VAC<br><2.0mA / 240VAC<br>100 ~ 112% rated out<br>User adjustable contin   | pad SA/230VAC   | 90%  |  | 91.5%   |  |  |  |  |
| ACTOR (Typ.) CY (Typ.) ENT (Typ.) ENT (Typ.) CURRENT (Typ.) E CURRENT AD   | 47 ~ 63Hz<br>0.95/230VAC at full lo<br>87.5%<br>20A/180VAC 16<br>60A/230VAC<br><2.0mA / 240VAC<br>100 ~ 112% rated out<br>User adjustable contin   | pad SA/230VAC   | 90%  |  | 91.5%   |  |  |  |  |
| ACTOR (Typ.) CY (Typ.) ENT (Typ.) CURRENT (Typ.) E CURRENT AD  | 0.95/230VAC at full lo<br>87.5%<br>20A/180VAC 16<br>60A/230VAC<br><2.0mA / 240VAC<br>100 ~ 112% rated out<br>User adjustable contin  | SA/230VAC<br>tput power   | 90%  |  | 91.5%   |  |  |  |  |
| CY (Typ.) ENT (Typ.) CURRENT (Typ.) E CURRENT AD   | 87.5%  20A/180VAC 16 60A/230VAC  <2.0mA / 240VAC  100 ~ 112% rated out User adjustable contin  | SA/230VAC<br>tput power   | 90%  |  | 91.5%   |  |  |  |  |
| ENT (Typ.) CURRENT (Typ.) E CURRENT AD   | 20A/180VAC 16<br>60A/230VAC <2.0mA / 240VAC 100 ~ 112% rated out<br>User adjustable contin   | tput power  | 3070   |  | 101.070   |  |  |  |  |
| CURRENT (Typ.) E CURRENT AD  | 60A/230VAC <2.0mA / 240VAC 100 ~ 112% rated out User adjustable contin   | tput power  |  |  |   |  |  |  |  |
| E CURRENT<br>AD<br>LTAGE   | <2.0mA / 240VAC<br>100 ~ 112% rated out<br>User adjustable contin  | <u> </u>  |  |  |   |  |  |  |  |
| AD<br>LTAGE  | 100 ~ 112% rated out User adjustable contin  | <u> </u>  |  |  |   |  |  |  |  |
| LTAGE  | User adjustable contin   | <u> </u>  |  |  |   |  |  |  |  |
|  |  | House constant curr   | OVERLOAD    100 ~ 112% rated output power  |  |   |  |  |  |  |
|  | 13.0 - 10.0 V  | uous constant curre   | 28.8 ~ 33.6V   | Tent infinding with delay s  | 57.6 ~ 67.2V  |  |  |  |  |
| MDEDATIIDE   | Protection type : Chu  | t down o/p voltage  |  |  | 37.0 * 07.2 V   |  |  |  |  |
|  | Protection type: Shut down o/p voltage, re-power on to recover  Shut down o/p voltage, recovers automatically after temperature goes down  |   |  |  |   |  |  |  |  |
| RY POWER(AUX)  | 12V@0.1A(Only for Remote ON/OFF control)   |   |  |  |   |  |  |  |  |
| ON/OFF CONTROL   | Please see the Function Manual   |   |  |  |   |  |  |  |  |
| IGNAL OUTPUT   | Please see the Function Manual   |   |  |  |   |  |  |  |  |
| OLTAGE TRIM Note.  |  | ion wandar  | 4.8 ~ 28V  |  | 9.6 ~ 56V   |  |  |  |  |
| SHARING  | Please see the Function Manual   |   |  |  |   |  |  |  |  |
|  | Please see the Function Manual -20 ~ +70°C (Refer to "Derating Curve")   |   |  |  |   |  |  |  |  |
| G TEMP.  G HUMIDITY  | 20 ~ 90% RH non-condensing   |   |  |  |   |  |  |  |  |
| E TEMP., HUMIDITY  |  |   |  |  |   |  |  |  |  |
| DEFFICIENT   | ±0.05%/°C (0~50°C)   |   |  |  |   |  |  |  |  |
| )N   | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes   |   |  |  |   |  |  |  |  |
| STANDARDS  |  | JV EN60950-1 approved   |  |  |   |  |  |  |  |
| ND VOLTAGE   | I/P-O/P:3KVAC I/P  |   |  |  |   |  |  |  |  |
|  |  |   |  | 1  |   |  |  |  |  |
|  |  |   |  |  |   |  |  |  |  |
|  |  |   |  |  |   |  |  |  |  |
| UNITT  |  |   |  |  |   |  |  |  |  |
| N.   |  |   |  |  |   |  |  |  |  |
|  |  |   |  |  |   |  |  |  |  |
|  | 0  |   | innut_rated load and f   | 25°C of ambient temp   | perature  |  |  |  |  |
| parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  It is noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  It is rance: includes set up tolerance, line regulation and load regulation.  It is 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 available on http://www.meanwell.com)  It is the PWM signal to control the output voltage.  PIN3) and PS(PIN4) of CN1 or CN2 must be shorted if "Output Voltage TRIM" function is not used. Otherwise, the power supply unit will have no rout. PV(PIN3) and PS(PIN4) of CN1 or CN2 must be disconnected if "Output Voltage TRIM" function is used. Otherwise, the internal electrical |  |   |  |  |   |  |  |  |  |
| on ordina  | N RESISTANCE SION NITY  N Immeters NOT specia & noise are measuluce: includes set upwer supply is consideratives. For guidaliable on http://www.set the PWM signal 3) and PS(PIN4) or PV(PIN3) and PS(ind)   | NRESISTANCE  I/P-O/P, I/P-FG, O/P-SION  Compliance to EN55  Compliance to EN55  NITY  Compliance to EN61  104.5K hrs min. M  278*177.8*63.5mm (incompliance)  4Kg; 4pcs/16Kg/1.8*  Immeters NOT specially mentioned are measured at 20MHz of bandwide: includes set up tolerance, line regulation wer supply is considered a component white ctives. For guidance on how to perform illable on http://www.meanwell.com)  set the PWM signal to control the output v 3) and PS(PIN4) of CN1 or CN2 must be PV(PIN3) and PS(PIN4) of CN1 or CN2 results and PS(PIN4) of CN1 or CN2 results are results. | NRESISTANCE  I/P-O/P, I/P-FG, O/P-FG:100M Ohms / !  SION  Compliance to EN55022 (CISPR22) Co  NITY  Compliance to EN61000-4-2,3,4,5,6,8,  104.5K hrs min. MIL-HDBK-217F (2!  N 278*177.8*63.5mm (L*W*H)  4Kg; 4pcs/16Kg/1.89CUFT  Immeters NOT specially mentioned are measured at 230VAC  & noise are measured at 20MHz of bandwidth by using a tace: includes set up tolerance, line regulation and load regulator supply is considered a component which will be installed irrectives. For guidance on how to perform these EMC tests illable on http://www.meanwell.com)  set the PWM signal to control the output voltage.  3) and PS(PIN4) of CN1 or CN2 must be shorted if "Output PV(PIN3) and PS(PIN4) of CN1 or CN2 must be disconne | NRESISTANCE  I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RFSION  Compliance to EN55022 (CISPR22) Conduction Class B, Radia 104.5K hrs min.  MIL-HDBK-217F (25°C)  N 278*177.8*63.5mm (L*W*H)  4Kg; 4pcs/16Kg/1.89CUFT  Imeters NOT specially mentioned are measured at 230VAC input, rated load and 8 noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire ten ice: includes set up tolerance, line regulation and load regulation.  Wer supply is considered a component which will be installed into a final equipmer irectives. For guidance on how to perform these EMC tests, please refer to "EMI trialible on http://www.meanwell.com")  set the PWM signal to control the output voltage.  3) and PS(PIN4) of CN1 or CN2 must be shorted if "Output Voltage TRIM" function. | NRESISTANCE  I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH  SION  Compliance to EN55022 (CISPR22) Conduction Class B, Radiation Class A; EN6100  NITY  Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A  104.5K hrs min. MIL-HDBK-217F (25°C)  N  278*177.8*63.5mm (L*W*H)  4Kg; 4pcs/16Kg/1.89CUFT  Imeters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf of certain control in the certain control in the component which will be installed into a final equipment. The final equipment irectives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component illable on http://www.meanwell.com)  set the PWM signal to control the output voltage.  3) and PS(PIN4) of CN1 or CN2 must be shorted if "Output Voltage TRIM" function is used. Other PV(PIN3) and PS(PIN4) of CN1 or CN2 must be disconnected if "Output Voltage TRIM" function is used. |  |  |  |  |





# AC Input Terminal Pin No. Assignment

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

# $Control\ Pin\ No.\ Assignment (CN1,CN2): HRS\ DF11-8DP-2DS\ or\ equivalent$

| Pin No. | Assignment | Pin No. | Assignment        | Mating Housing | Terminal      |
|---------|------------|---------|-------------------|----------------|---------------|
| 1       | RCG        | 5,7     | -S                |                |               |
| 2       | RC         | 6       | CS(Current Share) | HRS DF11-8DS   | HRS DF11-**SC |
| 3       | PV         | 8       | +S                | or equivalent  | or equivalent |
| 4       | PS         |         |                   |                |               |

RCG: Remote ON/OFF Ground

-S:-Remote Sensing

RC: Remote ON/OFF :Output Voltage External Control CS: Load Share +S: +Remote Sensing

PS: Reference Voltage Terminal

PV and PS are shorted when shipping (Note.6)

# Control Pin No. Assignment(CN3): HRS DF11-10DP-2DS or equivalent

| Pin No. | Assignment | Mating Housing                 | Terminal      |
|---------|------------|---------|------------|---------|------------|---------|------------|--------------------------------|---------------|
| 1       | P OK GND   | 4       | P OK2      | 7       | AUXG       | 10      | OL-SD      | 11D0 DE44 40D0                 | LIDO DE44 *** |
| 2       | P OK       | 5       | RCG        | 8       | AUX        |         |            | HRS DF11-10DS<br>or equivalent | or equivalent |
| 3       | P OK GND2  | 6       | RC         | 9       | OLP        |         |            | or oquivalone                  | or oquivalent |

P OK GND: Power OK Ground

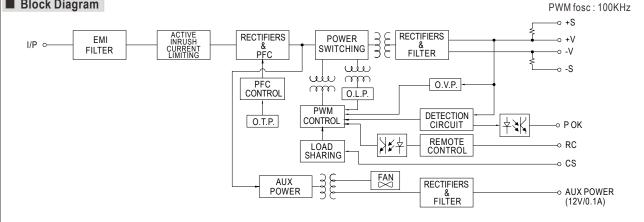
P OK: Power OK Signal (Relay Contact) P OK2: Power OK Signal (TTL Signal)

RCG: Remote ON/OFF Ground

AUX: Auxiliary Output

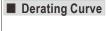
RC: Remote ON/OFF AUXG: Auxiliary Ground OLP: OLP/OL-SD:OLP mode select

# ■ Block Diagram

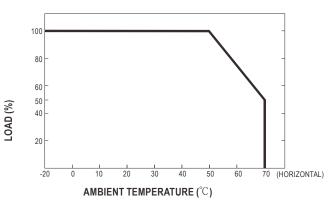


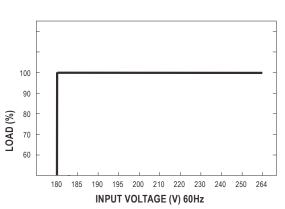
PFC fosc: 88KHz





# ■ Static Characteristics





# ■ Function Manual

#### 1.Remote ON/OFF

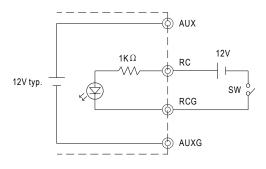
- (1)Remote ON/OFF control becomes available by applying voltage in CN1 & CN2 & CN3.
- (2) Table 1.1 shows the specification of Remote ON/OFF function.
- (3)Fig.1.2 shows the example to connect Remote ON/OFF control function.

Table 1.1 Specification of Remote ON/OFF

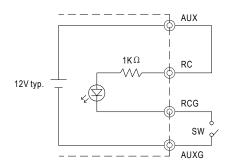
| Connection Method |            | Fig. 1.2(A) | Fig. 1.2(B) | Fig. 1.2(C) |
|-------------------|------------|-------------|-------------|-------------|
| SW Logic          | Output on  | SW Open     | SW Open     | SW Close    |
|                   | Output off | SW Close    | SW Close    | SW Open     |

Fig.1.2 Examples of connecting remote ON/OFF

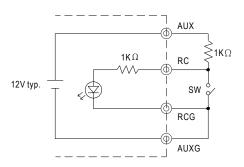
# (A)Using external voltage source



# (B)Using internal 12V auxiliary output



# (C)Using internal 12V auxiliary output





# 2.Alarm Signal Output

- (1) Alarm signal is sent out through "P OK" & "P OK GND" and P OK2 & P OK GND2 pins.
- (2)An external voltage source is required for this function.
- (3) Table 2.1 explain the alarm function built-in the power supply.

| Function | Description   | Output of alarm(P OK, Relay Contact)                   | Output of alarm(P OK2, TTL Signal)                    |  |
|----------|---|--|---|--|
| P OK     | The signal is "Low" when the power supply is above 80% of the rated output voltage-Power OK             | Low (0.5V max at 500mA)                                | Low (0.5V max at 10mA)                                |  |
|          | The signal turns to be "High" when the power supply is under 80% of the rated output voltage-Power Fail | High or open<br>(External applied voltage, 500mA max.) | High or open<br>(External applied voltage, 10mA max.) |  |

Table 2.1 Explanation of alarm

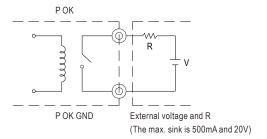


Fig. 2.2 Internal circuit of P OK (Relay, total is 10W)

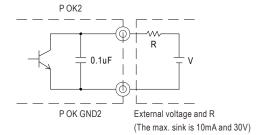


Fig. 2.3 Internal circuit of P OK2 (Open collector method)

# 3. Output Voltage TRIM

- (1)PV(PIN3) and PS(PIN4) of CN1 or CN2 must be disconnected if "Output Voltage TRIM" function is used. Otherwise, the internal electrical components may be damaged, and the power supply unit may thus be out of order.

  (2)Connecting an external DC source between PV & -S on CN1 or CN2, and +S & +V, -S & -V also need to be connected that is shown in Fig. 3.1.
- (3)Adjustment of output voltage is possible between 20~110%(Typ.) of the rated output which is shown in Fig. 3.2. Reducing output current is required when the output voltage is trimmed up.

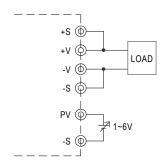
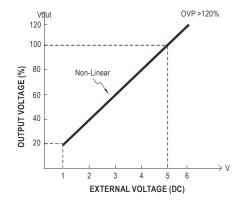


Fig. 3.1 Add on 1~6V external voltage



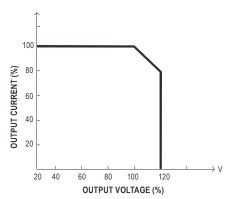
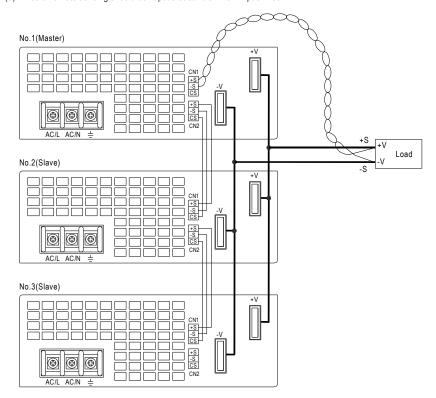


Fig. 3.2 Output voltage trimming

#### 4. Current Sharing

- (1)Parallel operation is available by connecting the units shown as below
  - (+S,-S and CS are connected mutually in parallel):
- (2) The voltage difference among each output should be minimized that less than 0.2V is required.
- (3)The total output current must not exceed the value determined by the following equation. (Output current at parallel operation)=(The rated current per unit)  $\times$  (Number of unit)  $\times$  0.9
- (4) In parallel operation 3 units is the maximum, please consult the manufacturer for other applications.
- (5) When remote sensing is used in parallel operation, the sensing wire must be connected only to the master unit.
- (6) Wires of remote sensing should be kept at least 10 cm from input wires.



- (7) When in parallel operation, the minimum output load should be greater than 3% of total output load. (Min. Load >3% rated current per unit × number of unit)
- (8) Under parallel operation, the "output voltage trim" function is not available.

#### 5.Select O.L.P mode

- (1)Remove the shorting connector on CN3 that is shown in Fig 5.1, the O.L.P. mode will be "continuous constant current limiting".
- (2)Insert the shorting connector on CN3 that is shown in Fig 5.2, the O.L.P. mode will be "constant current limiting with delay shutdown after 5 seconds, re-power on to recover.



Fig. 5.1 Remove the CN3 OLP Mode : constant current limiting

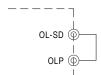


Fig. 5.2 Insert the CN3

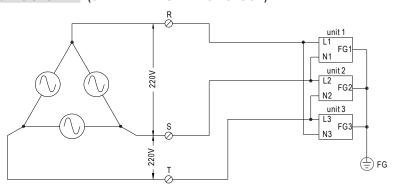
OLP Mode: constant current limiting with delay shutdown after 5 seconds



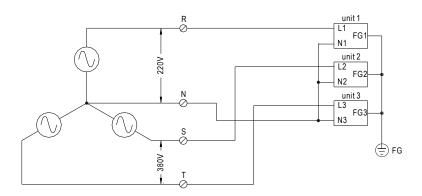
#### 6.Three Phase Connect

Users can exploit three units of RSP-3000 (unit 1 , unit 2, unit 3) to work with 3  $\psi$  power system. Please refer to following diagrams for configuration.

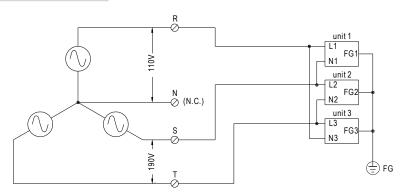
# ■ FIG. A: $3 \psi 3W 220VAC SYSTEM$ (STANDARD MODEL FOR STOCK)



# $\blacksquare$ FIG. B: 3 $\psi$ 4W 220/380VAC SYSTEM



# **FIG. C:** $3 \psi 4W 190/110VAC SYSTEM$



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