

## SE-1800 Single Output Power Series Parameters

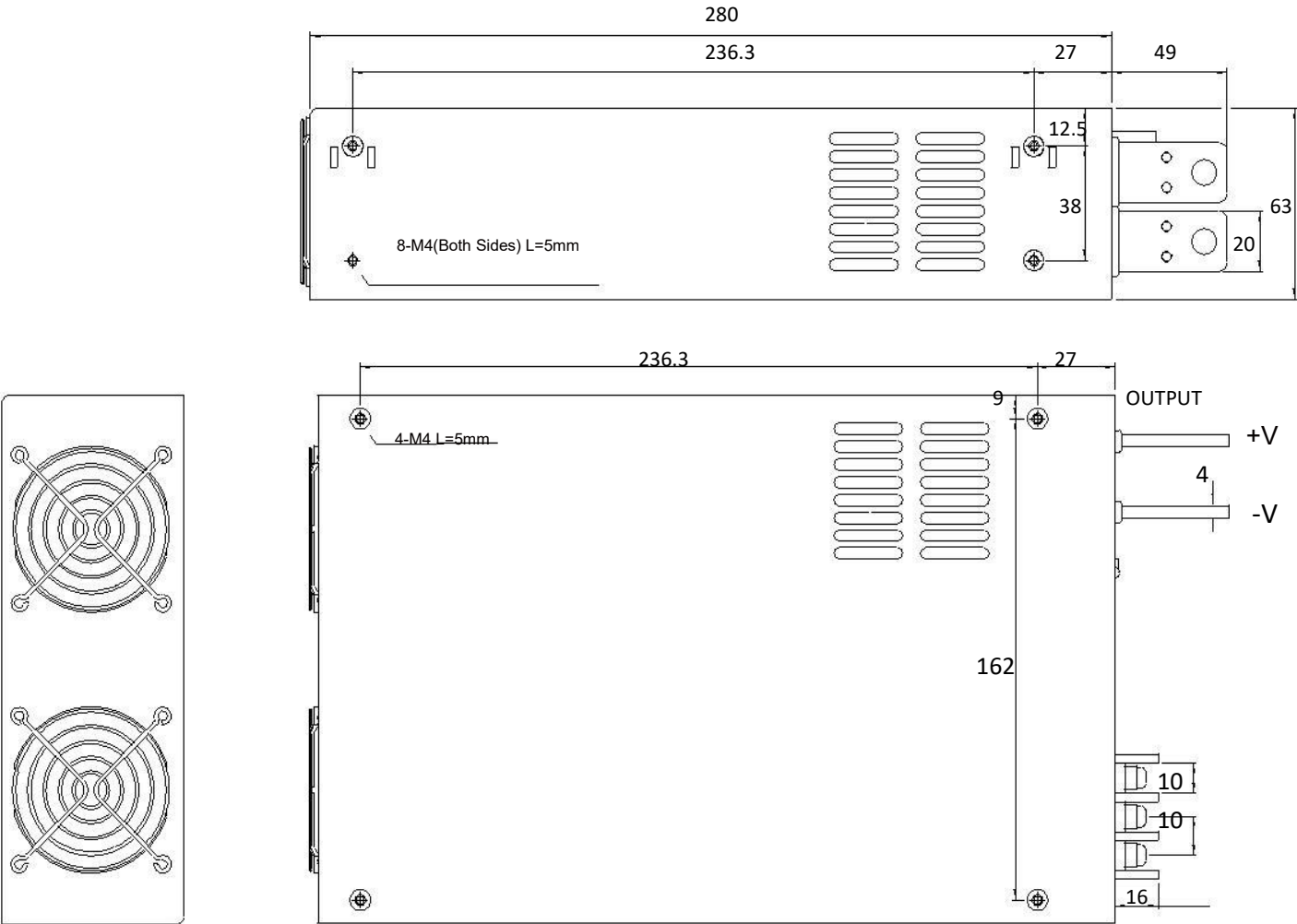
### Electrical Specifications

| Model                      |                           | SE-1800-30                                                                                                                                                         | SE-1800-36                  | SE-1800-48  | SE-1800-60                                         | SE-1800-68  |
|----------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------|----------------------------------------------------|-------------|
| OUTPUT                     | DC voltage                | 30V                                                                                                                                                                | 36V                         | 48V         | 60V                                                | 68V         |
|                            | Current Rating            | 60A                                                                                                                                                                | 50A                         | 37.5A       | 30A                                                | 26A         |
|                            | Current Range             | 0 ~60A                                                                                                                                                             | 0 ~50A                      | 0 ~37.5A    | 0 ~30A                                             | 0 ~26A      |
|                            | rated power               | 1800W                                                                                                                                                              | 1800W                       | 1800W       | 1800W                                              | 1800W       |
|                            | Ripple and Noise          | 480mVp-p                                                                                                                                                           | 480mVp-p                    | 480mVp-p    | 480mVp-p                                           | 480mVp-p    |
|                            | Voltage adjustment range  | ADJ-20%~+3%                                                                                                                                                        | ADJ-20%~+3%                 | ADJ-20%~+3% | ADJ-20%~+3%                                        | ADJ-20%~+3% |
|                            | Voltage Accuracy          | ± 1.0%                                                                                                                                                             | ± 1.0%                      | ± 1.0%      | ± 1.0%                                             | ± 1.0%      |
|                            | Line Regulation           | ± 0.5%                                                                                                                                                             | ± 0.5%                      | ± 0.5%      | ± 0.5%                                             | ± 0.5%      |
|                            | Load Regulation           | ± 0.5%                                                                                                                                                             | ± 0.5%                      | ± 0.5%      | ± 0.5%                                             | ± 0.5%      |
|                            | Start, the rise time      | 1000ms, 80ms（Full）                                                                                                                                                 |                             |             |                                                    |             |
|                            | Hold Time (Typ.)          | 10ms（Full）                                                                                                                                                         |                             |             |                                                    |             |
|                            | INPUT                     | Voltage Range                                                                                                                                                      | 180 ~ 264VAC 或 254 ~ 370VDC |             |                                                    |             |
| Frequency Range            |                           | 47 ~ 63Hz                                                                                                                                                          |                             |             |                                                    |             |
| Power Factor (Typ.)        |                           | 0.75/230V（Full）                                                                                                                                                    |                             |             |                                                    |             |
| Efficiency (Typ.)          |                           | 88%                                                                                                                                                                | 88%                         | 88%         | 89%                                                | 89%         |
| Alternating current (Typ.) |                           | 14A/180VAC      10A/230VAC                                                                                                                                         |                             |             |                                                    |             |
| Inrush current (Typ.)      |                           | Soft Start   19A/230VAC                                                                                                                                            |                             |             |                                                    |             |
| Leakage current            |                           | <3.5mA / 240VAC                                                                                                                                                    |                             |             |                                                    |             |
| protection                 | Overload                  | Rated output 100 ~ 105%                                                                                                                                            |                             |             |                                                    |             |
|                            |                           | Users can continuously adjustable constant current output signal via analog voltage or over-current protection current constant voltage linearly decreased to zero |                             |             |                                                    |             |
|                            | Overvoltage               | Close Protection Type Output Output voltage after the restart recovery                                                                                             |                             |             |                                                    |             |
|                            |                           |                                                                                                                                                                    |                             |             |                                                    |             |
|                            | Over temperature          | 80℃±5℃    Detection on power transistor radiators                                                                                                                  |                             |             | 105℃±5℃    Detection on power transistor radiators |             |
|                            |                           | Output voltage temperature shutdown protection type automatic recovery after fall                                                                                  |                             |             |                                                    |             |
| Features                   | Remote Switch             |                                                                                                                                                                    |                             |             |                                                    |             |
|                            | Auxiliary power           | 13.8V 0.5A    The controller can be used for power supply                                                                                                          |                             |             |                                                    |             |
|                            | Output    voltage control | Use 0 ~ 5V analog signal or MCU SPWM control output 0V to 100% of rated voltage, continuously adjustable linear rise                                               |                             |             |                                                    |             |
|                            | Output    current control | Use 1 ~ 5V analog signal or MCU PWM control output current 0 to the maximum rated output current continuously adjustable                                           |                             |             |                                                    |             |
|                            | Parallel Current          |                                                                                                                                                                    |                             |             |                                                    |             |
| surrounding                | Operating temperature     | -20 ~ 70℃                                                                                                                                                          |                             |             |                                                    |             |
|                            | Working humidity          | 20 ~ 90%RH Non-condensing                                                                                                                                          |                             |             |                                                    |             |
|                            | Temperature               | ±0.05%/℃   （0~50℃   ）                                                                                                                                              |                             |             |                                                    |             |

|                |                                                                                                                                                    |                                                                   |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| ngs            | Coefficient                                                                                                                                        |                                                                   |
|                | Vibration resistance                                                                                                                               | 10 ~ 500Hz, 2G 10 Ten minutes / cycle, X, Y, Z axes of 60 minutes |
| Safety and EMC | Safety specifications                                                                                                                              | UL60950-1                                                         |
|                | Pressure                                                                                                                                           | I/P-O/P:3KVACI/P-FG:1.5KVAC O/P-FG:0.5KVAC                        |
|                | Insulation resistance                                                                                                                              | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃/ 70% RH          |
|                | size                                                                                                                                               | 280*180*63(L*W*H)                                                 |
| 备注             | 1. 如未特别说明, 所有规格参数均在输入为230VAC, 额定负载, 25℃环境温度下进行测量。<br>2. 纹波和噪声测量方法: 使用一条12"双绞线, 同时终端要并联0.1uF和47uF的电容, 在20MHz带宽下进行测量。<br>3. 精度: 包含设定误差, 线性调整率和负载调整率。 |                                                                   |

Organization size

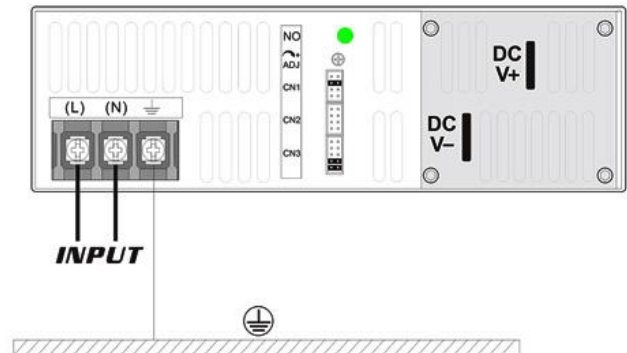
机壳型号 1520B 单位 mm



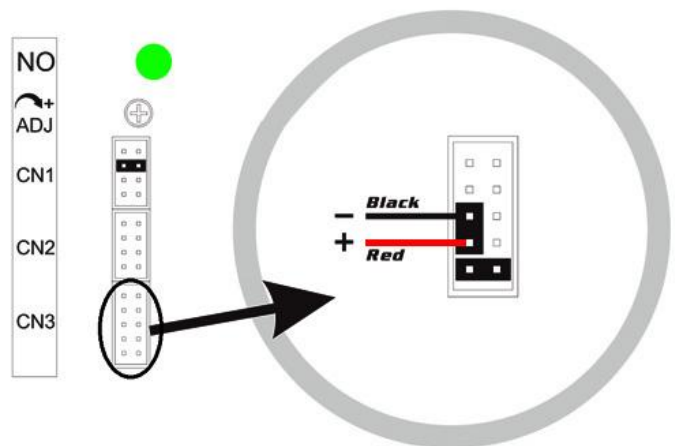
端子引脚分布

| 引脚编号 | 引脚功能 |
|------|------|
| 1    | AC/L |
| 2    | AC/N |
| 3    | FG   |

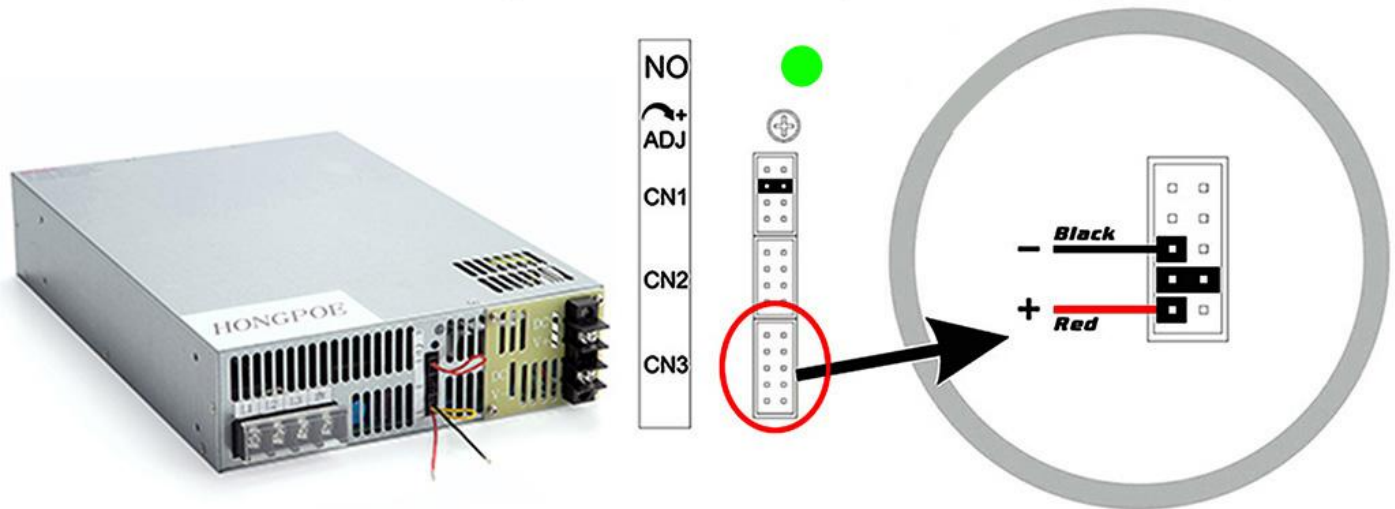
## *Factory default fixed voltage output*



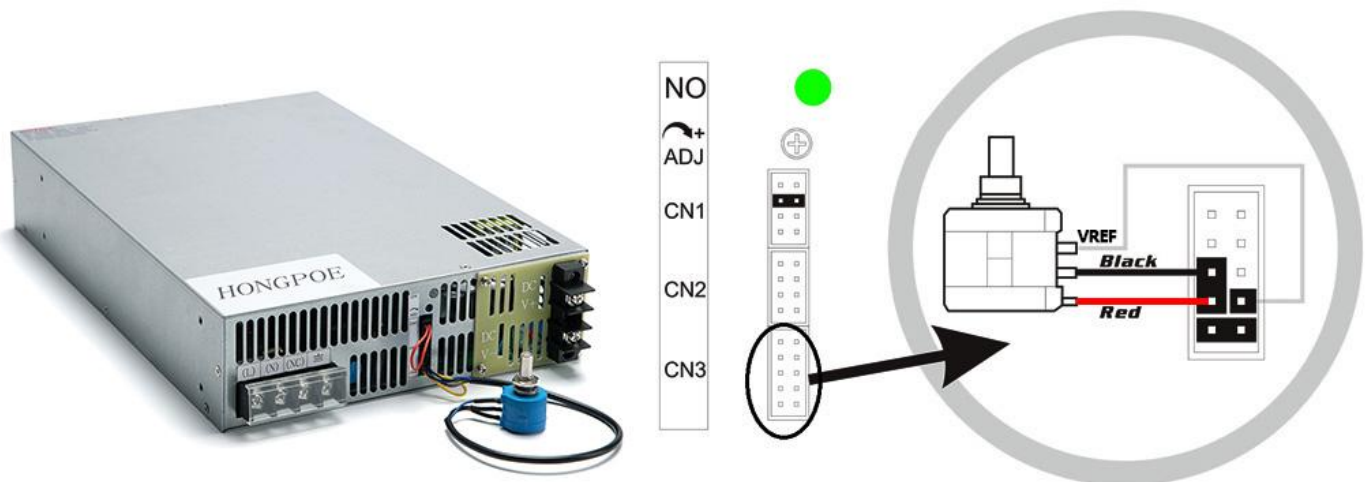
## 0-5V, 0-10V, PLC, PWM signal control output voltage (0-100%)



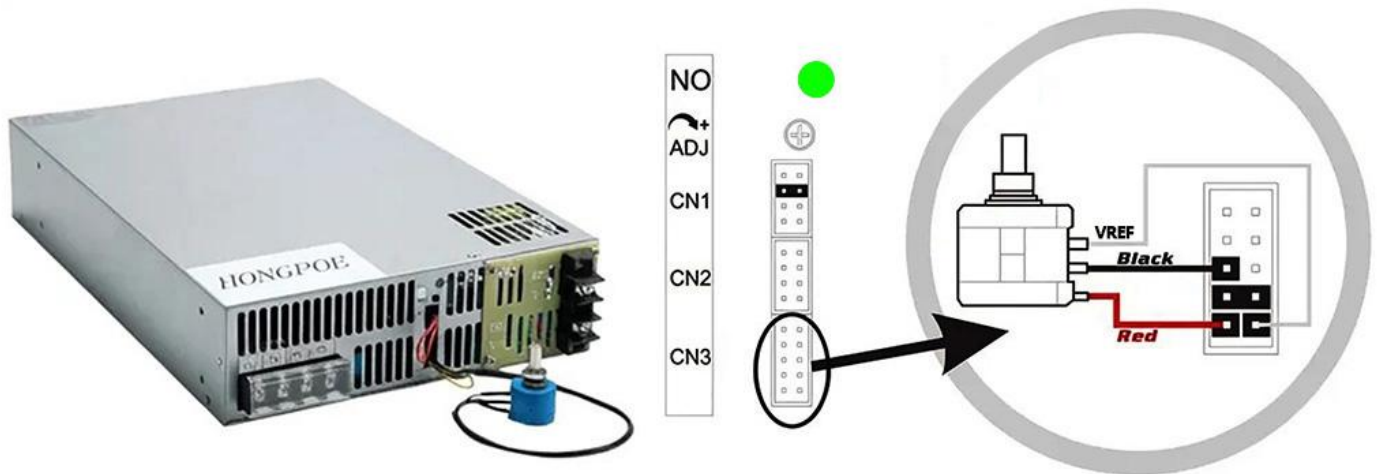
0-5V,0-10V,PLC,PMW signal Controls Output current (0-105%)



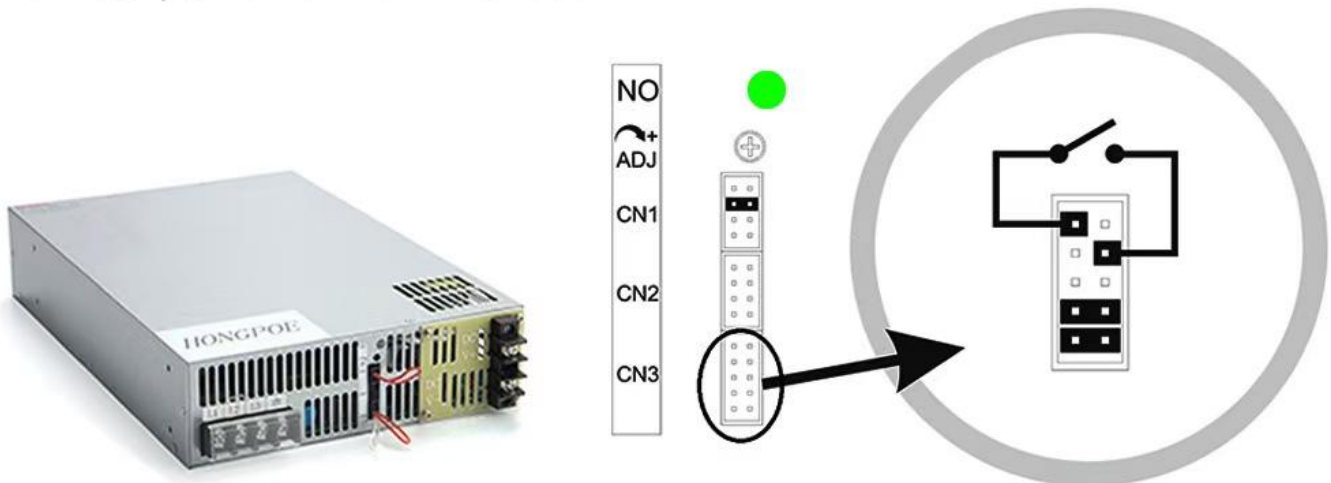
Variable resistor controls output voltage (0-100%)



Variable resistor controls output current (0-105%)

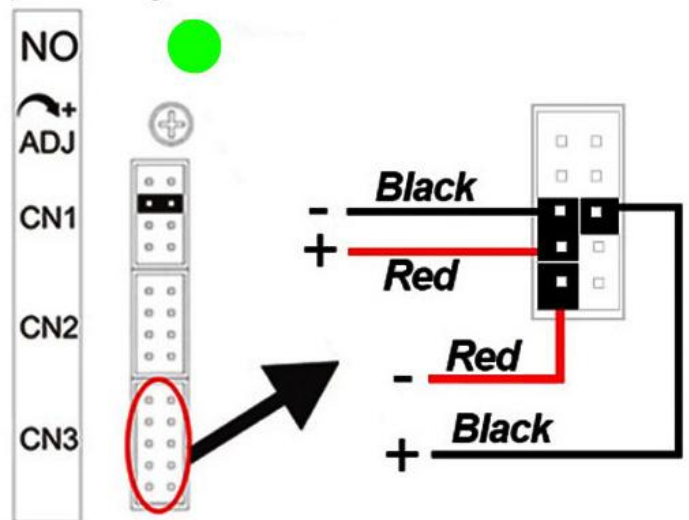


Remote power ON/OFF function



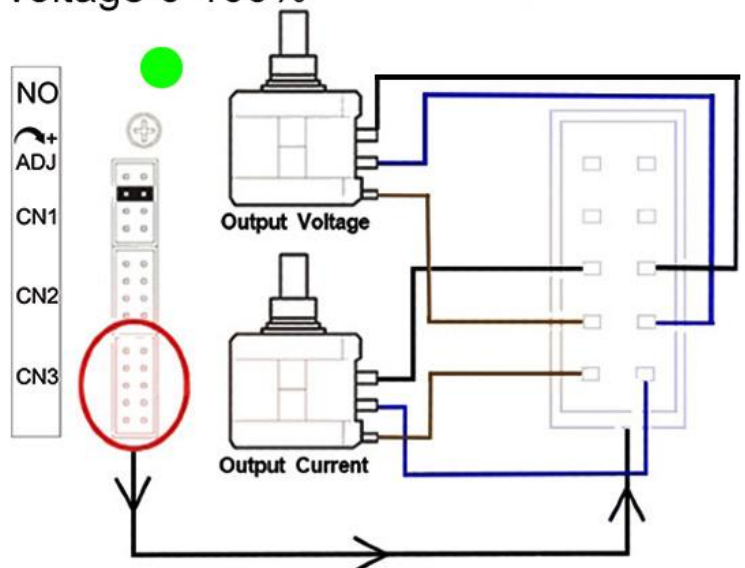
0-5V, 0-10V, PLC, PMW signal controls output voltage

0-100% and output current 0-105%



Variable resistor controls output voltage 0-100%

and output current 0-105%



*This series supports parallel wiring method for multiple power supplies with a maximum parallel total power of 50,000W.*

## HONGPOE

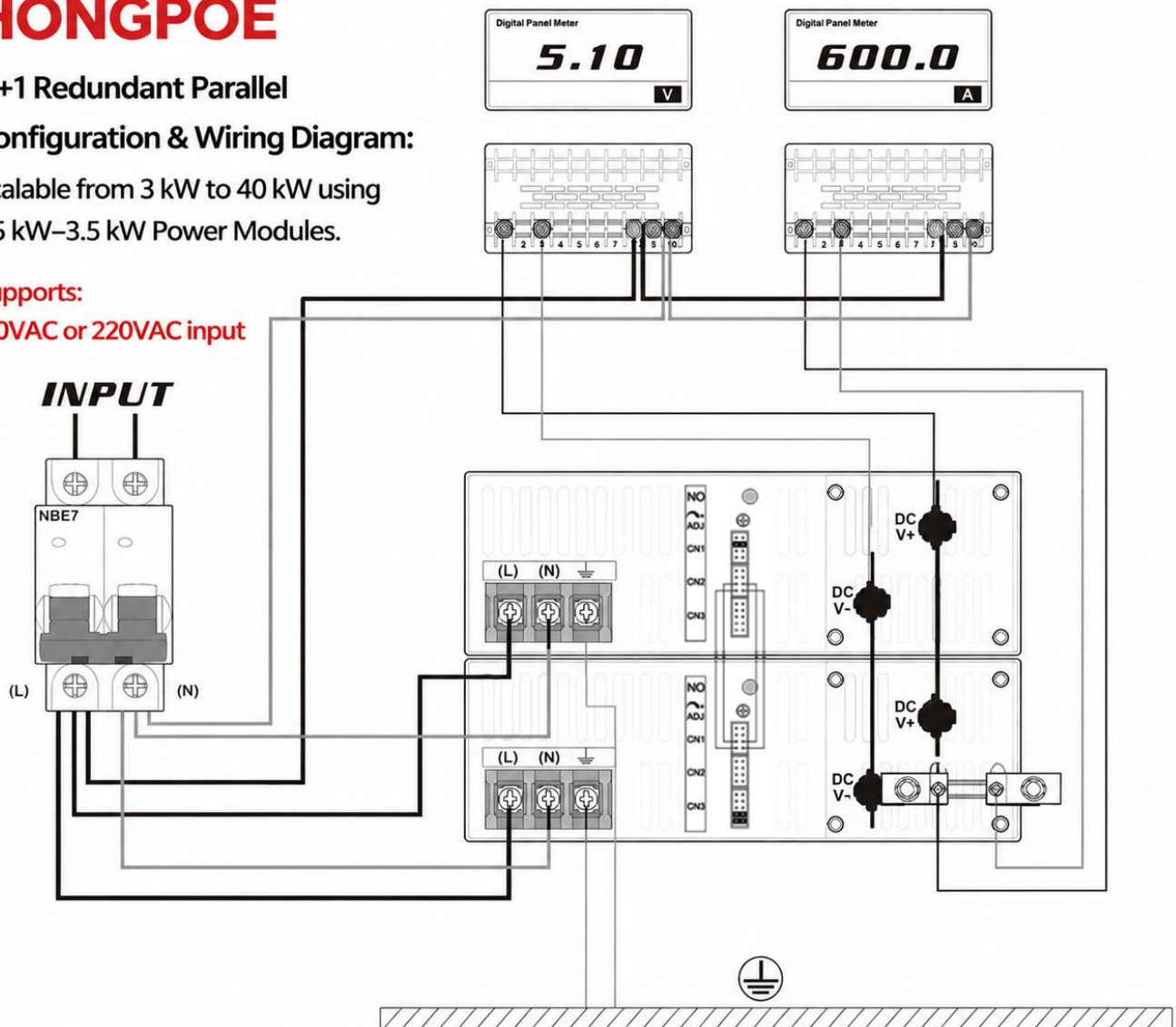
### N+1 Redundant Parallel

### Configuration & Wiring Diagram:

Scalable from 3 kW to 40 kW using  
1.5 kW–3.5 kW Power Modules.

**Supports:**

**110VAC or 220VAC input**



# HONGPOE

## 1500W-3500W



### Overvoltage Protection (OVP)

Protects against excessive voltage to ensure safe operation.



### Overcurrent Protection (OCP)

Protects against overcurrent to prevent damage.



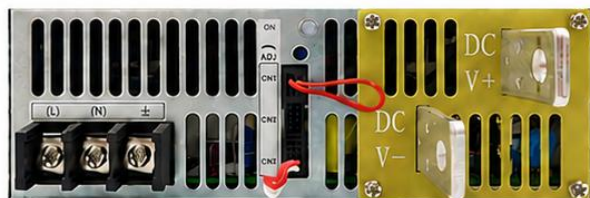
### Short-circuit Protection (SCP)

Protects against short circuits to enhance safety.

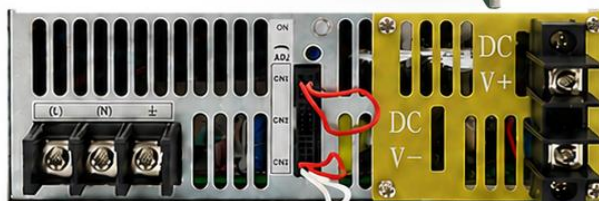


### Overtemperature Protection (OTP)

Protects against overheating to ensure reliable performance.



**5V-110VDC Output**  
(Copper Busbar Output)



**150V-600VDC Output**  
(Terminal Block Output)



**High Reliability**  
Stable and durable performance



**Full Protections**  
OVP / OCP / SCP / OTP  
All-round protection



**Smart Cooling**  
Built-in fan with temperature control



**Wide Applications**  
Suitable for industrial, automation, LED, etc.

## Industrial Multi-Signal Control Module (0-5V / 0-10V / PLC / PWM)

Provides fully adjustable voltage (0-100%) and current (0-105%) regulation.  
Designed to ensure stable output and high precision with your automation equipment.



### CONTROL SIGNAL INPUT

- ✓ 0-5V
- ✓ 0-10V
- ✓ PLC
- ✓ PWM Signal

Black Wire : Negative (-)

Red Wire : Positive (+)

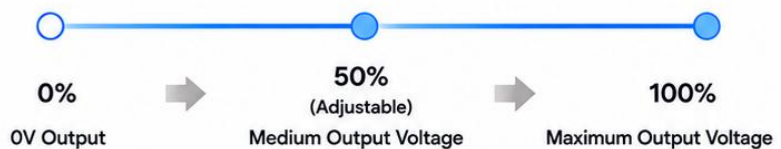


**APPLICABLE MODELS:**  
**1500W ~ 3500W**

The above functions apply to all models.

### HOW IT WORKS

Adjust the control input signal to linearity change the output voltage.



High Accuracy  
Stable Output



Multi-Signal  
Compatibility



Adjustable  
0-100% / 0-105%



Easy Integration  
Industrial Quality