

1. Product Model List

Model	Power Consumption	Dimension
H02PW	1.5VA	93×95×82mm

2. Indicator Description

- ① POW: Power indicator, green. Continuous ON - Power good; OFF - Power error.
- ② CV/CC/ON: Constant voltage/constant current/PWM indicator, red. Continuous ON - The corresponding constant voltage/constant current/PWM output; OFF - No output.
- ③ LINK: Communication indicator. According to the severity of the error indication in 4 colors: Green, Yellow Flash, Flashing Red, Red from normal to severely.

According to the different states of the indicator, users are recommended to take the following actions:

State of the LINK Indicator	Indication Information	Actions to Take
Green	Keep dark	Host is not recognition module and no communication
	Keep light	Host identified modules and no communication
	Quick jitter	Serial, parallel communication
Yellow	Flashing light and dark	No parallel / serial communication
	Alternating dark and jitter	Parallel / serial communication
	Flashing light and dark	No parallel / serial communication
Red	Alternating dark and jitter	Parallel / serial communication
	Keep light	No parallel / serial communication
	Quick jitter	Parallel / serial communication
		Returned for repair

Note: Jitter: 30 second's on with 30 second's off ; Flicker: 0.5 second's on with 0.5 second's off ; Alternately: 0.5 second's off with 0.5 second's jitter

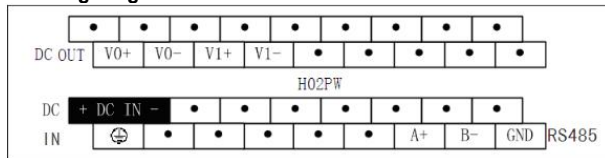
3. Technical Specifications

Item	Parameter
Input voltage range	24V~62V
Output voltage range	3V~50V
Output current range	Single: 0~5A Dual: 0~3A
Output Power	Single: 60W Dual: 90W (Each 45W)
Output voltage resolution	10mV
Output current resolution	5mA
Accuracy	CV: 0.5%+5mV CC: 0.5%+5mA
Line regulation	CV: 0.5%+5mV CC: 0.5%+1mA
Load regulation	CV: 4%+20mV CC: 0.5%+1mA
Ripple	Max.300mV (Within the specified range)
Typical Efficiency	86% (Input 65V, Output 30V/2A)
Measurement Accuracy	CV: 1%+5mV CC: 1%+2mA
Type of protection	OVP、OCP、OPP
Cooling	Heat sink

4. Environmental specifications for Product

Item	Environment Specification
Temperature/Humidity	Operating temperature:0~+55℃ Storage temperature:-25~+70℃ Humidity: 5~95%RH, No condensation
Interference Immunity	DC EFT:±2500V Anti surge: ±500V
Over Voltage Resistance	500VAC/1min between DC terminal and PE terminal
Insulation Impedance	≥5MΩbetween DC terminal and all input/output points to PE terminal @500VDC
Operating environment	Avoid dust, moisture, corrosion, electric shock and external shocks

5. Terminal Wiring Diagram



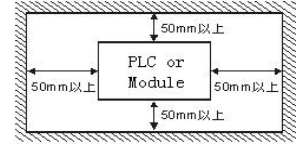
6. Mounting and installation

The PLC should be secured to an enclosed cabinet while mounting. For heat dissipation, make sure to provide a minimum clearance of 50mm between the unit and all sides of the cabinet. (See the figure.)

Rail Mounting: Use standard 35 mm rail.

Screw Mounting: Each MPU or extension module has two positioning screw holes, the diameter of the hole is 4.5mm. Please refer to the dimension figure for the location of the positioning holes and their spacing.

To avoid over temperature and for a better heat dissipation, do not mount PLC to a position near to the bottom/top of the cabinet. Do not mount PLC in vertical direction.



7. Correspondence Address Setting

Method 1: modify address by code switch. The 4-bit code switch is used to set PLC's address, as shown in the figure on the right side. The black rectangle indicates the position of each code switch. When the switch was toggled to ON, the bit was set to 1, bit will be set to 0 when the corresponding switch was toggled to OFF. The 4-bit code switch's state indicates PLC's address by the following rule: the "1" switch represents the first bit (b0), the "4" switch represents the fourth bit (b3). Therefore the 4-bit code switch is able to represent binary number range from 0000 to 1111, PLC's address will be the decimal number converted from the binary number set by the code switch.

Method 2: modify address through programming software interface. Select "PLC" option in the menu bar, then select "Setup PLC Parameters" option from the follow-up options, checked "Use PLC Soft Address".



8. Module CR Table (Note: CR number is the corresponding Modbus register address)

CR No.	Function	R/W	Default	Note
00H	Low byte represents the module code, the high byte represents the module version	R		
01H	Communication Address	R/W	1	Range:1~254
02H	Protocol: Low 4 bit: 0 - N,8, 2 For RTU, 1 - E,8, 1 For RTU, 2 - O,8, 1 For RTU, 3 - N,7, 2 For ASCII, 4 - E,7, 1 For ASCII, 5 - O,7, 1 For ASCII, 6 - N,8, 1 For RTU High 4 bit: 0 - 2400, 1 - 4800, 2 - 9600, 3 - 19200, 4 - 38400, 5 - 57600, 6 - 115200	R/W	48	(19200,N,8, 2 ,RTU)
03H~06H	Module Name	R/W		
07H	IP address	R/W		
08H	IP address	R/W		
09H	Factory Information	R		
0AH	Factory Information	R		
0BH	High byte subnet mask, low byte HW vendor code	R/W		
0CH	Factory Information	R		
0DH	Factory Information	R		
0EH	Factory Information	R		
0FH	Error code: 0: Normal; 1: Illegal firmware; 2: Firmware is incomplete; 3: System data access exception; 4: No external 24V power supply	R		
10H	1 channel voltage measurements	R		Unit: 0.01V
11H	1 channel Current measurements	R		Unit: 0.01A
12H	2 channel voltage measurements	R		Unit: 0.01V
13H	2 channel Current measurements	R		Unit: 0.01A
14H	Channel 1 output voltage	R/W	0	Unit: 0.01V
15H	Channel 1 current voltage	R/W	0	Unit: 0.01A
16H	Channel 2 output voltage	R/W	0	Unit: 0.01V
17H	Channel 2 current current	R/W	0	Unit: 0.01A
18H	Channel 1 PWM output cycle (Unit ms)	R/W		
19H	Channel 2 PWM output cycle (Unit ms)	R/W		
1AH	Channel 1 PWM output duty	R/W	1000	0-1000
1BH	Channel 2 PWM output duty	R/W	1000	0-1000
1CH~3FH	Reserved	R		

Thanks for choosing Haiwell Product, If you have any questions about our products or services, please let us know!

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