

Product Introduction

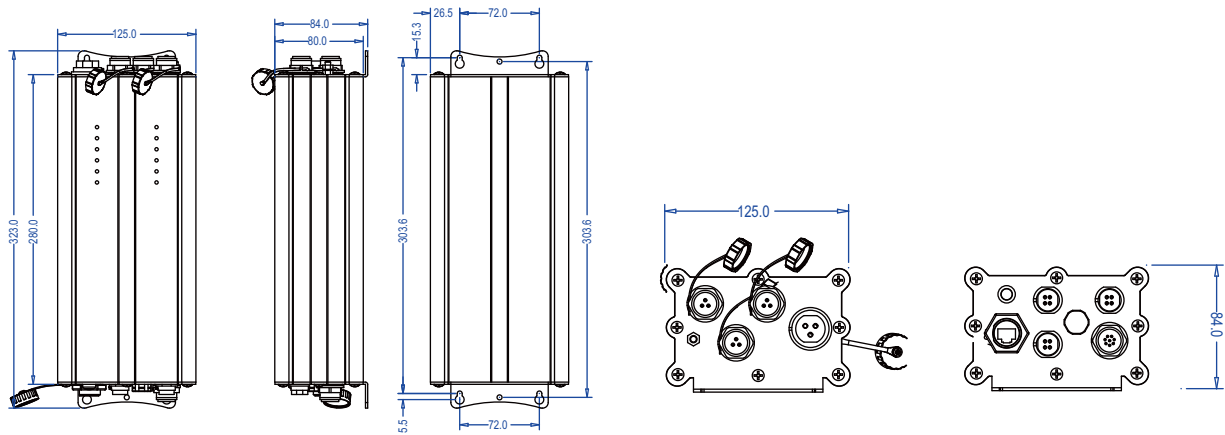
This product is mainly used for power supply for different applications of smart light rods, and has functions such as data collection, and detection. Intelligent management of remote control, remote faith, and remote testing of this power supply can be implemented. PL-UK18 is an intelligent integrated power supply. It has the functions of power conversion, data collection, measurement inspection and other functions. This power supply has multiple DC 5V, 12V, 24V, 48V, and AC110/220V output, which can collect voltage, current and circuits per path; Pressure, custom alarm threshold. The transmission protocol supports the serial port Modbus RTU. Mainly used in the fields of smart light rods, data monitoring and other fields.

Technical Parameters

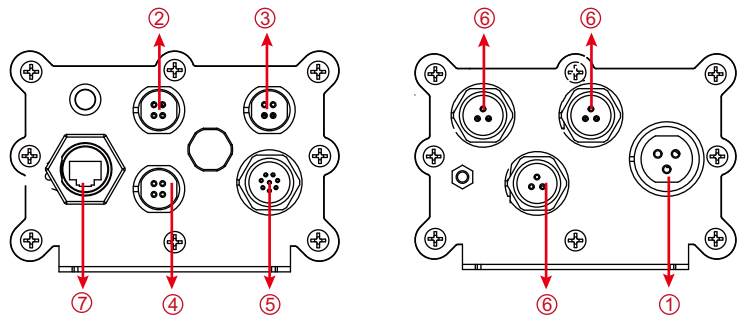
Power Input	1. Input voltage (90-264V) 2. Protection: Langyong 1.2/50US Common Model 2KV/Differential Model 1KV 1KV
Power Output	1. Support 2 DC 12V total power 120W controllable power supply output 2. Support 2 DC 24V power 120W controllable power supply output 3. Support 1 DC 48V power 100W control power output 4. Support 1 DC 5V total power 10W fixed power supply output can be in total 5. Support 3 AC110/220V output, each way can support maximum 2000W output 6. With overcurrent protection 1.5-2 times
Serial Port	1. Provide 2 RS-485 communication interface 2. Isolation 2500V 3. Communication rate 1200-115200bps 4. Interface type: aviation connector 5. Protection: Lightning and wave surge 1.2/50US common mode 2kV/differential model 1KV
Switch Input Volume	1. Provide 2 -line switch input communication interface 2. Interface type: Aviation connector 3. 500V isolation voltage
Ethernet	1. 1 Road 10/100M Ethernet interface 2. Interface type: waterproof RJ45 3. Protection: Lightning and wave surge 1.2/50US common mode 2kV/differential model 1kV
Collection Data Parameters	1. 9 CH voltage output and 9 -way output current data collection 2. The AC110/220V output side supports current collection, the error is 1% 3. Resolution: There are symbol 24 -bit data 4. Other collection errors: 0.5% fs 5. Speed: 4Hz (full channel)
Communication Protocol	Modbus Rtu, TCP/IP
Indicator Light	1. Power: AC power indicator light 2. 110/220_1: The first channel , AC110/220V output indicator light 3. 110/220_3: Second channel, AC110/220V output indicator light 4. 12_1: The first channel , 12V output indicator light 5. 24_1: First channel , 24V output indicator 6. TXD: serial data send status indicator light 7. Run: Running light 8. 110/220_2: The second channel, AC110/220V output indicator light 9. 48_1: The first channel , 48V output indicator light 10.12_2: The second channel , 12V output indicator light 11.24_2: The second channel , 24V output indicator 12.RXD: serial data receiving status indicator light
Equipment Environment	1. Work temperature: -25~70℃ 2. Work humidity: 10%~95%(no condensed) 3. Storage temperature: -40~70℃ 4. Storage humidity: 10%~95%(no condensed)

Product Size

Product size: 323 mm x 125 mm x 84 mm (with hanging clips)



Wiring Instructions



① AC 220V power input (waterproof connector):

Aviation joint serial number	Wire	Signal	Description
1	Brown	L	AC110/220V power input Fire
2	Blue	N	AC110/220V power input Zero line
3	Yellow & Green	PE	Ground

② The definition of the 12V power output pin definition:

Aviation joint serial number	Color	Signal	Description
1	Red	12V OUT1	12V first communication output
2	Blue	GND	12V Power to ground
3	Red	12V OUT2	12V second communication output
4	Blue	GND	12V power supply

③ 24V power output pin definition:

Aviation joint serial number	Color	Signal	Description
1	Red	24V OUT1	24V first communication output
2	Blue	GND	24V Power to ground
3	Red	24V OUT2	24V second communication output
4	Blue	GND	24V power supply

④ 5V and 48V power output pins definition:

Aviation joint serial number	Color	Signal	Description
1	Brown	5V OUT	5V output
2	Blue	GND	5V power supply
3	Red	48V OUT	48V 8 Output
4	Blue	GND	48V power supply

⑤ Definition of RS-485 and switching input communication interface pins:

Aviation joint serial number	Color	Signal	Description
1	Brown	First road RS485A	
2	Blue	First Road RS485B	
3	Brown	2nd Road RS485A	
4	Blue	2nd Road RS485B	
5	Yellow	First switch input +	
6	Green	First switch input -	
7	Yellow	2nd switch input +	
8	Green	2nd switch input -	

⑥ AC220V output pin definition:

Aviation joint serial number	Wire	Signal	Description
1	Brown	L	AC110/220V power output Fire
2	Blue	N	AC110/220V power output Zero line
3	Yellow & Green	PE	Ground

⑦ 10/100M communication interface pins definition:

RJ45	Signal	Description
1	TX+	Send signal positive
2	TX-	Send signal negative
3	RX+	Receiving signal positive
4	RX-	Receiving signal negative

Communication Protocol Description

Device address	1
Potter	9600
Data position	8
Stop	1
Check digit	Not
Default IP	192.168.0.3
The port number	5000

Product Picture

