Product profile

Welcome to use our P7 24V 1A. For your secure using, please read this user manual carefully. The following contents are about the proper use of the product, the prevention of danger and loss of property etc. Please be sure to abide.

Features

- Input Voltage from solar panel 12~24V
- Input AC 90~260V/50-60Hz
- Output power DC Jack x 2
- Integrated POE Inserter data in & power (Passive POE: 4,5 positive;
 7.8 negative)
- Power Monitor
- · Including power code
- Auto Batteries Rechargeable and Self-Dischargeable
- Low consumption power
- · Short Circuit, Over Current and Over
- · Discharge Protection
- High Temperature Operation
- ◆ Battery capacities 10,000 mAH
- Embedded MPPT Solar controller

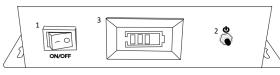
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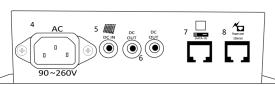
Panel description

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P7

User Manual





Item	Name	Descriptions
1	ON/OFF	ON/OFF Switch: press the switch to turn ON or turn OFF the
		device
2	Battery level	Switch Battery level indicator: hold the switch to check the
		battery level in the LCD screen
3	LCD screen	LCD screen: the screen will show the level of the battery
4	AC	AC Input Jack: the AC input jack allowed input voltage
		90~260V
5	DC IN	DC Input Jack: use to connect the solar panel
6	DC OUT	DC Output Jack: the use to power output. Output
		voltage 24V
7	DATA	DATA Input Jack: the RJ45 jack, used for DATA input.
	POE	PoE Output Jack: the RJ45 jack, used for PoE output; Output
8		voltage 24V

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Assembly

- Operator: technical personnel
- · Selecting the Mounting Location

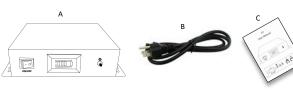
Danger:

Danger to life due to fire or explosion.



- Do not mount the P7 on flammable construction material.
- Do not mount the P7 near highly flammable materials.
- Do not mount the P7 in potentially explosive areas.
- Do not expose the P7 to direct sunlight to avoid power loss due to overheating.
- ◆ *Dimensions*: L * W * H : 190mm*148mm*47mm
- Net Weight: 1.5kg
- Ambient Conditions:
 - The mounting location and method must be suitable for the weight and dimensions.
 - Mount on a solid surface.
 - The mounting location must be accessible at all times.
 - The P7 must be easy to remove from the mounting location at any time.
 - The ambient temperature should be between –10 ° and +60 ° to guarantee ontimal operation
 - Do not expose the P7 to direct sunlight to avoid power losses due to overheating.

Unpacking



Object	Quantity	Description
Α	1 unit	PED P7
В	1 pc	Cable
С	1 pc	User manual

If there is any part missing, please contact your dealer.

• Check for Transport Damage

Check the P7 for visible external damage, such as cracks in the enclosure. Contact your dealer if you find any damage.

Identifying the P7 model

You can identify the P7 model by the type label. The type label is in the enclosure.

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Safety Clearance: Observe the following safety clearance to wall, other devices
or objects to ensure sufficient heat dissipation.

Direction	Safety clearance				
Sides	20 cm				
Тор	30 cm				
Bottom	20 cm				

Important Safety Instructions

When using the product, please do remember the below information to avoid the fire, lightning or other personal injury:



Warning!

Ensure input voltage no more than Max. voltage .Over voltage may cause permanent damage to P7 unit or other losses, which will not be included in warranty!



Warning!

Ensure P7 is turned off before attempting to make any working on any circuits connected to the P7

Connection diagram



- Connect the power to the AC terminal. Make sure the polarities are correctly connected. Sequentially connect the solar panel to DC IN terminal and connect POE source to PoE input jack. (Make sure that he device is off before make the connections, otherwise the device will be burnt.)
- When a solar panel and AC input are connected to the P7, if the voltage of solar panel is higher than 15V, then solar panel is always the main power source of the P7.
- ◆ Turn ON the device to full work
- Hold the switch of Battery level, to check the battery level in the LCD screen

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Technical Specifications

Model	P7-24V1A	
Solar input range	12-24V	
Solar Panel power max	40W	
Lithium-ion battery	10,000mA	
Input Power	AC 90-260V/50-60Hz	
Input Connection	DC Jack	
Output power	DC Jack x 2	
Power Monitor	V	
On/Off switch	V	
Including power code	V	
PoE pin	RJ45 4,5(+) 7,8 (-)	
PoE insert data & power	PoE insert data & power	
Embedded MPPT Solar controller	Embedded MPPT Solar controller	
Power efficiency	90%	
Recharging time	4-6 hours	
Recharging Life Cycle	Over 500 times	
Material	Metal box	
Operating Temperature	0°C~50°C	
Storage Temperature	-10°C~60°C	
Relative Humidity	10% ~ 90%, non condensation	
Storage Humidity	5%~95% non-condensing	
Weight	1.5 kg	
Dimensions	190mm×148mm×47mm	

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Electrical Specifications

1) Input:

1.1) Input Source Types:

A. AC power source

B. Solar Panel

1.2) Input Voltage:

A. AC power source : 90 ~260 V B. Solar Panel: 12V~24 V max

2) Out put:

Model	P7- 24V1A
Output 1 (at DC output)	24V/1A
Output 2 (at right hand side RJ45)	24V/1A

3) Battery Charge Types:

A. Solar Panel: charge current depends on the wattage of the solar panel.

B. POE: fixed current, 1A max

4) Battery Types:

Lithium-ion 10,000 mA embedded

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Cleaning and Maintenance

Clean the Fan air vents and internal cooling fin regularly by using the dry cloth to wipe.

Attention:

- Liquid detergent or corrosive solvent cleaning are forbidden.
- Liquid is not allowed to down in the device.
- Make the air vent open.
- · Carefully remove dirt with a suitable soft brush.

Storage and waste disposal

Store

Storage the P7 $\,$ in a dry place with ambient temperatures between $-10\,^{\circ}$ and $+60\,^{\circ}\text{CC}.$

Disposal

Dispose of the P7 at the end of its service life in accordance with the disposal regulations for electronic waste which apply at the installation site at that time.

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5) Protection:

<u>Battery Over Discharge Protection</u>: Cuts off the load when the battery voltage is lower than 23V \pm 0.3V, and auto recover when the battery voltage returns to 24 V \pm 0.3V.

Battery Over Charge Protection: Fuse control, over 1A, the fuse will be burnt.

<u>Solar Panel Polarity Reverse Protection:</u> When solar panel polarities be reversed, the charger stop output, it won't damage the P7 or end device.

<u>Battery Over Discharge Protection</u>: Cuts off the load when the battery voltage is lower than 23V \pm 0.3V, and auto recover when the battery voltage returns to 24V \pm 0.3V.

Battery Over Charge Protection: Fuse control, over 1A, the fuse will be burnt.

<u>Solar Panel Polarity Reverse Protection:</u> When solar panel polarities be reversed, the charger stop output, it won't damage the P7 or end device.

Solar Panel Over Charge Protection: When charge current over 1A, the fuse will be burnt.

<u>Output Short Circuit Protection:</u> When the rear output terminal or PoE output be short circuit, protection be active, the product stop output and auto-recover when the terminal back to normal connection.

<u>Battery Output Current Limit:</u> The fuse will be burnt when battery output current over 10A

<u>Load Output Voltage Limit:</u> The output voltage on the rear terminal normally is the same as battery, if the battery voltage higher than 24V, the output voltage on the terminal will be clamped at 24V. The PoE out put of P7 with the same limit.

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Recovery Processing

When the P7 abnormal, please check the following question and contact the customer service representative.

When the P7 does not start properly check the P7 solar panel with the correct polarity.

If the problem persists , please contact the customer service : Please offer the following information : Equipment information: Model, Order No., serial-number (Stickers on the rear plate); Detailed description of the problem (Type of system, occasionally/frequent problems, indicator light, and so on).

Warranty

Within the warranty period, it is free to repair for the non-human fault. Otherwise, should charge the cost of repairs.