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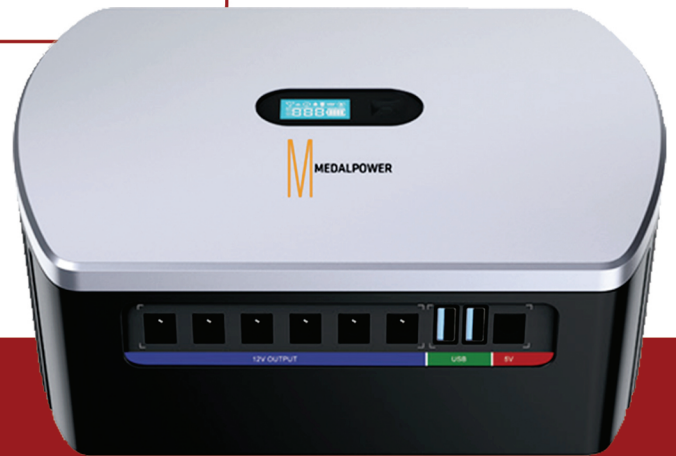
Uninterruptible Power Supply(UPS)

120W

DC UPS

MPDCU#120WA

# Congratulations on your purchase!

We recognize the stress and annoyance of power outages. The DCF Series DC UPS is a quick and easy way to stay connected and powered up! Can provides backup power for your wifi router or modem, smartphones and LED lights. CCTV cameras and VoIP phones can also be connected and powered via the Gigabit Power Over Ethernet (PoE) port. Charge mobile devices such as cell phones and tablets via USB. Featuring 4 or 8 high-capacity Battery (48000mAh / 154Wh max and Li-ion or LiFePo4) with safety protocols such as over-charge, over-discharge and short circuit protection.

> ⚠ Read all safety information. below and operating instructions before using this DC UPS to avoid injury and damage to your devices. We assume no responsibility for the damage to charged devices due to improper operation of this DC UPS. Improper use may result in product damage, decreased battery life and loss of charging capacity not covered by the manufacturers warranty.

Package Contents:

1. 1×DCF-UPS.
2. 1×0.8m AC power cable.
3. 1×1 m 5.5*2.5 female to 5.5*2.5 male DC Power Cables.
4. 1×0.5 m One-to-One 5.5*2.5 male to 5.5*2.5 male DC Power Cables.
5. 1×0.5 m One-to-Two 5.5*2.5 male to 5.5*2.5 male DC Power Cables.
6. 1×0.5 m One-to-Three 5.5*2.5 male to 5.5*2.5 male DC Power Cables.
7. Power convertor: 5.5x2.5 female to 5.5x2.5 male , 90°.
8. Power convertor: 5.5x2.5 female to 3.5x1.35 male.
9. Power convertor: 5.5x2.5 female to 5.5x2.1 male.
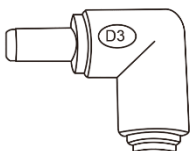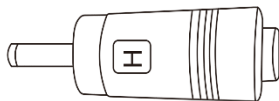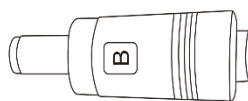10. 1× fixing screws
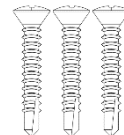11. User's Manual
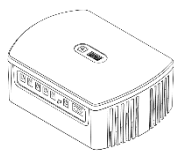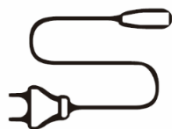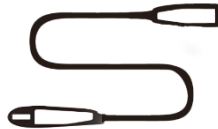
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| 7 | 8 | 9 | 10 | 11 |

Product Features:

• Intelligent circuit design with over-charging over-discharging and over-load and short circuit protection.

• Built-in adapter allows wide AC voltage range 100~240 Vac and DC voltage range 12~24 Vdc.

• Automatic switch-on when connected to AC or DC power.

• Built-in high capacity lithium batteries (154Wh max/48000mah).

• 5V/2A USB Output for charging smartphones quickly.

• LED or LCD status indicators.

• Suitable for most digital devices.

• Gigabit Power over Ethernet (POE) transmits data and power at the same time.

• Wall-mountable design.

• Supports customized output voltage and number of ports.

• Supports customized wireless control features.

Product Specifications:

Model	MPDCU#120WA
Input	100 ~ 240Vac 50/60Hz
	12 ~ 24Vdc(2.5A max)
Front Panel Outputs	1×9V/12V (2A)(selectable)
	Standard：4×12V(10A)
Rear Panel Outputs	1×5VDC (2.4A)+2×5V USB(2.4A)+12V*6
Power output	120W
Battery type	Lithium-Ion
Battery specifications	18650
Battery number	8
Battery capacity	17600mah (2200mAh*8pcs)
Ambient temperature in working mode	0-40℃
Ambient temperature in discharge mode	0-50℃
Unit dimension	214 mm×159 mm×86mm
Net Weight	1.1kg

For customized orders, please contact a salesperson.

Note: Net weight is related to battery specifications and options, for more accurate weight please contact salesman.

Instructions of the Components:

1. AC input socket
2. DC input socket
3. Output voltage selector (9V/12V)
4. Output port(9V/12V)
5. Output port(12V)
6. Output port(12V)
7. Output port(12V)
8. Output port(12V)
9. Output voltage Selector for POE1
10. Ethernet output interface (POE1 output)
11. LAN Ethernet interface(LAN1 input)

Product Overview:

Front Panel view

Rear Panel view 1
Standard

Rear Panel view 2
Customized
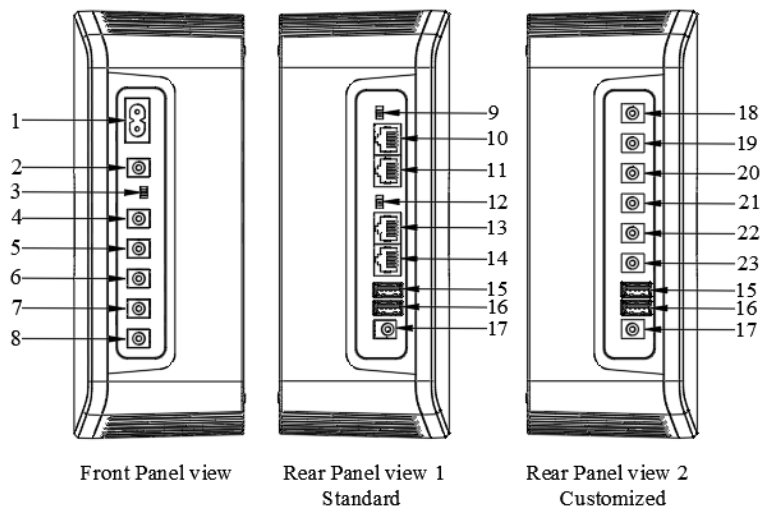
12. Output voltage Selector for POE2(Optional)

13. Ethernet output interface (POE2 output) (Optional)

14. LAN Ethernet interface(LAN2 input) (Optional)

15. USB (5Vdc) output port

16. USB (5Vdc) output port

17. Output port(5V)

18. Output port(12V)

19. Output port(12V)

20. Output port(12V)

21. Output port(12V)

22. Output port(12V)

23. Output port(12V)

a. ON/OFF Switch

b. Work status indicator

c. 25% battery capacity LED indicator

d. 50% battery capacity LED indicator

e. 75% battery capacity LED indicator

f. 100% Battery capacity LED indicator

g. Battery level display icon
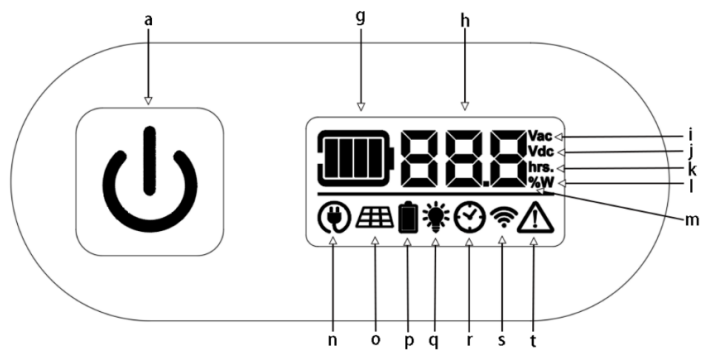
Operation Instructions

1. Press and hold the power button for 2-3 seconds to switch on the UPS. The POE voltage switch can adjust the output voltage of the POE port . Select required voltage.

2. Please charge the UPS fully before connection. When the status light is green. it is charging. Whilst charging. the power indicator lights will indicate the capacity of the battery from 25% - 100% respectively. 100% is fully charged.

3. The status light will turn red to indicate battery backup mode is active. The power indicator lights will turn off from 100% -25% respectively as the battery power depletes. When the light flashes at 25%, the battery power is low and the UPS ready to shut down.

4. If you use the LCD version, you can read the current battery voltage, output power and operating mode of the UPS on the LCD screen. Short press the ON/OFF buttons to switch the display.

5. The output power of this UPS is controlled by total power capacity. The total power that is connected to all the ports cannot exceed the maximum output power. If so. all output ports will close and the UPS will shut down automatically. Please remove excess loads.

6. Before connecting your device to the UPS, check its working voltage, current and polarity which you can find on the original adapter.

7. To avoid over-discharging of the lithium batteries. Please restart the UPS with the AC power connected after the low battery shut down.

8. The UPS will be shut down automatically once the battery power is low. You can restart once connected to the AC power.

9. If the UPS is not in use, please ensure it is fully charged and kept in a cool place. If the UPS has not been in use for a while, please connect to AC power until the status light is green Charging the battery once a month is recommended to prolong battery life.

10. The USB port provides 5V charging to digital devices.

11. For wall mounting, please drill holes according to the dimensions shown below.
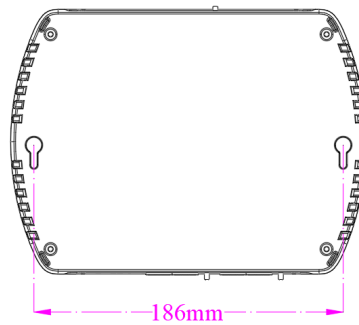
Safety Precautions:

- Check the working voltage, current and polarity of the loads before connecting devices to the UPS. Choose the correct corresponding voltage.
- Charge fully before 1nital use.
- It is recommended that you use the included cable to charge the unit
- Do not store in high or low temperature environments, small enclosed areas without ventilation or place in a fire
- Do not drop, bump, throw or shake the unit as this may damage the internal components
- Do not disassemble or try to repair or modify
- Do not allow the unit to come in contact with water or moisture
- If the unit becomes excessively hot, emits odour, gets dented or experiences any abnormal deformity, stop using it immediately.
- Only dispose of the unit at an authorized recycling centre
- Do not use harsh chemicals or cleaning agents to clean the unit
- Keep out of reach of children.
- Do not dispose the unit into fire or expose the unit to direct sunlight for long periods of time.
- Do not use a damaged cable or power adapter to charge the unit
- The unit should be charged at least once a month to avoid shortening the battery life

Consumer Information:

Your consumer rights are governed by the laws of the country in which you purchased the product. Please contact your service provider for more information.

Correct Disposal

 This marking on the product. accessories or literature indicates that the product and its electronic accessories (e.g. charger cable) should not be disposed of with other household waste

 This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste

Logic functions and signal outputs

Type	Event	Status Description
LED	AC/DC mode	status LED is green
	battery mode	status LED is red
	state of charging	power LED displays the power level and flashes
	full charge	power LEDs are all on.
	state of discharging	power light displays the power level
	overload	after all LEDs flash slowly for 5S, turn off the outputs and shut down the ups.
	Over-charge	75% and 100% battery LEDs flash slowly for 5S and then shut down
	short circuit	after all LEDs flash fast for 2S, turn off the outputs and shut down the ups.
	low battery	25% battery LED flash slowly
	Over-discharge	25% battery LEDs flash fast for 5S and then shut down
LCD	AC input mode	show charging icon
	DC input mode	show solar panel charging icon
	battery mode	show battery icon
	state of charging	power LED displays the power level and flashes
	full charge	power LEDs are all on.
	state of discharging	the last one battery LED flash slowly and display flashes on and off
	output enable	show the load icon
	AC input voltage	show the input voltage and the unit as Vac
	battery Voltage	show the battery voltage and the unit as Vdc
	output power of load	show the power of the load and the unit as W
	load percentage	show the percentage of the load and the unit as %
	low battery	error code：E01
	Over-charge	error code：E02
	short circuit	error code：E06
	overload	error code：E07
	Over-temperature	error code：E08
	output port abnormality	error code：E09

Caution:

Risk of explosion if the battery is tampered with in any way. Do not disassemble. Dispose of used batteries according to the safety precautions

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Leave Power for Medal Power