

NETOGY

MINI 14400mAh DC UPS / POWER BANK

UPS100-PLUS

USER MANUAL



Thank you for choosing our UPS. Before operating this unit, please read the **USER MANUAL** carefully to ensure that the best possible performance is obtained.

1. Box Content



1 x Multi-output power backup mini UPS unit



1 x AC power cable



1 x Y cable 2.5mm Male to Male (50cm)



1 x Straight cable 2.5mm Male to Male (1m)



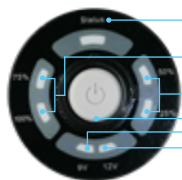
2 x Adapters (2.5mm Female to 2.1mm Male)



1 x User Manual

2. Introduction To Display, Ports And Sockets

LED INDICATOR



Status Indicator

Battery Capacity Indicator

ON/OFF Button

9V DC Indicator

12V DC Indicator

For the 9V/12V Selectable DC Output

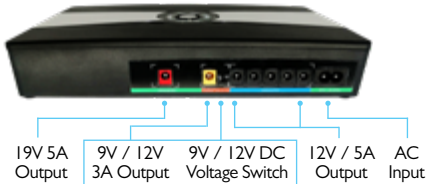
FRONT



5V Output

USB Ports

BACK



3. Features

- Emergency uninterruptible power supply - perfect for load shedding.
- Can be used as a Power Bank.
- High output power (100W) - capable of powering multiple devices simultaneously.
- Suitable for most digital devices with 8 x DC outputs supporting multiple voltages and 2 x 5V USB ports.
- High-capacity (14400mAh hours) Lithium Iron Phosphate (LiFePO₄) battery.
- Safeguards against power surges, spikes, dips and failure.
- Protects voltage sensitive devices.
- Intelligent circuit design with over-charging, over-discharging and short circuit protection.

4. Step-By-Step Guide To Setup Your UPS

IMPORTANT NOTES BEFORE STARTING

- Confirm the voltage (V) of each device you want to connect to the UPS. Ensure that you connect each device to one of the DC Outputs on the UPS with the same voltage rating. Failure to do this may result in damage to the connected device.
 - You can check the voltage (V) of each device on its label or on the label of the device's power supply.
- Ensure that the Amperage (A) of the device(s) you want to connect to the UPS, does NOT exceed the Amperage (A) for the applicable DC Output(s) you will connect them to. NOTE that it does not matter if it is lower than the indicated Amperage (A).
- You will NOT need or require the power supply of the device(s) you want

to connect to the UPS for connection/setup to the UPS – the UPS will power the connected devices.

- ONLY connect 2 devices to the Y-Cable if they have the same voltage rating and they are close enough to each other for the 2 ends of the Y-cable to reach both devices.
- If the connector(s) at the end of the provided cable(s) does not fit the device you want to connect to the UPS, please try one of the accessory adapters provided by connecting this adapter to the end of the provided cable, and then to the device you want to connect to the UPS.
 - If the connector still does not fit, you will need to obtain or buy a cable or adapter with the correct connector type for your specific device.

IMPORTANT: It is the user's responsibility to ensure that their devices are connected correctly and to the correct and appropriate outputs.

STEP 1: Connecting the power cable

Connect the one end of the provided AC/Mains Power Cable to an electrical outlet and the other end to the AC (Mains Power) Input of the UPS100-PLUS, labelled "INPUT 100-240Vac".



STEP 2: Connecting a device to the UPS

Once you have confirmed the correct DC output port on the UPS to connect the device to, connect the one end of one of the provided cables to this DC output port on the UPS and the other end to the applicable device.


Repeat this for any other device(s) you also want to connect to the UPS.

NOTE: WHEN CONNECTING A 9-VOLT DEVICE

When you want to connect a 9-volt (9V) device you will need to:

- Ensure that the 9V/12V Selector switch is set to 9V
- Connect the applicable device to the Yellow 9V/12V Output

STEP 3: Switching the UPS on

Switch the UPS100-PLUS on by pressing and holding the ON/OFF power button  for 2 to 3 seconds on the UPS.

ON/OFF
power button



5. Example Diagrams



6. LED Explanation

LED		Description		
Status	Green	AC/Mains power on		
	Yellow	Maximum Output power exceeded - USB ports disabled		
	Red	AC/Mains power off - using battery		
12V	Green	Selector switch is set to 12V and a device is connected to the Yellow 9V/12V Output		
9V	Green	Selector switch is set to 9V and a device is connected to the Yellow 9V/12V Output		
Battery Capacity LEDs	25	Flashing	Very low battery level	
	25		25% battery level indicator	
	25	50	50% battery level indicator	
	25	50	75	75% battery level indicator
	25	50	75	100

7. Specifications

Input

Input voltage 100-240VAC

Output

Max. Output Power 100W

Number of USB Ports 2

Total DC Outputs 8

DC Output Voltage 5 x 12V | 9V / 12V | 19V | 1 x 5V + 2 x USB

Output Current 5.0A | 3.0A | 5.0A | 2.0A

Output Power 60W | 36W | 95W | 10W

Battery

Battery Type Lithium Iron Phosphate (LiFePO4)

Battery Capacity 8 x 1800mAh Batteries

Protection BMS (overcharging, over-discharge, over-current, over-temperature protection and battery balance)

Charge

Charging Time 3 - 4 hours

Physical

Unit Dimension (mm)	253 x 146 x 45mm
Net Weight (Kg)	0.7kg

Environment

Operating Temperature	0° - 40° C
Humidity	20% - 90%
Noise Level	Less than 40dB

- * Product specifications are subject to change without notice.
- * To ensure the safety of transportation, the battery is not fully charged when leaving the factory. Please charge before use.

8. Troubleshooting

Issue / Error	Possible Explanation/Solution
Status LED is RED	This is not an error or issue. This means that the AC/Mains power is off and the connected devices are running from the UPS battery power.
25% Battery capacity indicator LED is flashing	This indicates that the remaining battery capacity is very low (below 25%) and the battery power will run out soon if the AC/Mains power is not restored.
Neither the 9V nor the 12V LED is on	This is not an error or issue. This only means that there is no device with a load connected to the Yellow 9V/12V Output port on the UPS. 1 of these 2 LEDs will light up only when a device is connected to this port. Which LED to light up will depend on which voltage the Selector switch is set to.
Status LED is flashing YELLOW	The maximum Output power of the UPS is exceeded and the USB ports have been disabled as a result. To resolve this, remove excess load by removing/disconnecting some of the connected devices.
USB Ports are not working	Confirm if the STATUS LED is flashing Yellow. If so; the maximum Output power of the UPS is exceeded and the USB ports have been disabled as a result. To resolve this, remove excess load by removing/disconnecting some of the connected devices.
All power indicator LEDs flashing	The maximum Output power of the UPS is exceeded and the disabling the USB ports did not resolve/reduce the load enough. To resolve this, remove excess load by removing/disconnecting some of the connected devices.



IMPORTANT

The total power of the loads which connect to all the ports cannot exceed the maximum output power of your model. If this does occur, the USB ports will be disabled and the status light will flash yellow. If the total power of the loads still exceeds the maximum power rating after the USB ports are disabled, then all the output ports will be turned off, and all power indicator lights will flash. In this situation, please remove excess load.

If the UPS will not be used for extended periods, ensure that it is fully charged before storing in a cool, dry place. If the UPS has been in storage too long, you will need to plug in mains power until the status light turns green. It is recommended that the UPS battery is charged once per month.



WARNING

1. Always check the working voltage, current and polarity of the loads before connecting them to the UPS, connecting them to the appropriate voltage output.
2. Charge device fully prior to initial use.
3. Damage caused by dropping, disassembling or attempting to repair the UPS privately will render your warranty null and void.
4. Do not immerse the UPS in water or allow it to get wet.
5. Do not dispose of any of the UPS's components in a fire.
6. Do not use the UPS in a flammable environment.
7. Keep the UPS out of reach of children and unauthorised persons.

Device Support Information

Device Support: +27 (0) 10 824 0049

Operating Hours: 08:00 – 17:00 (Mon – Thurs)
08:00 – 16:00 (Fri)

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