

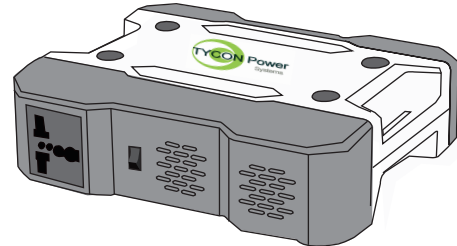
Tycon Power Pack

USER GUIDE



120
Watts
Li-ion battery

90
Watts
Inverter



Tycon Power Pack

TP-PP120-INV



Please read this guide before you use your Power Pack!

TyconPower.com

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► Technical Specifications

Battery Type: Li-ion Battery
 Battery Capacity: 12V, 10Ah
 Battery Voltage Range: 12±2V
 Life-span: >1000 cycles

Inverter Type: Modified sine wave inverter
 Inverter Efficiency: >85%
 Inverter Power: 90W
 Frequency: 60Hz
 Inverter Voltage: 110VAC

Input Ports:
 DC car, boat, solar: 15V/3A Max
 AC wall charger: 45Watts 15V/3A

Output Ports:
 USB: 5V/1A
 DC: 12V/5A

Operating Temperatures:
 Optimal Operating: -20°C ~ 50°C

Usage: Please keep battery charged during long term storage. Recharge every 3-4 months.

► Function Overview

Left side

DC Button

Push power on or off.
 Control for DC input, DC output, USB output.

DC Input Port

Charge from house wall, solar panel, or 12VDC boat and car. When you need to charge, turn on the DC button first.

Indicator Light

USB Port

For your USB cable to charge your handheld devices.

DC Output Port

Use to run any 12VDC devices

LCD screen

The LCD screen will show how much remaining battery capacity is left.



► Right side

AC Output Port

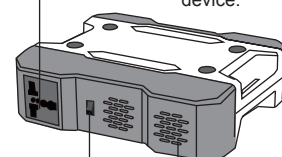
AC Output Port for AC device.

AC Button

Switch on and off for AC output.

Cooling Fan

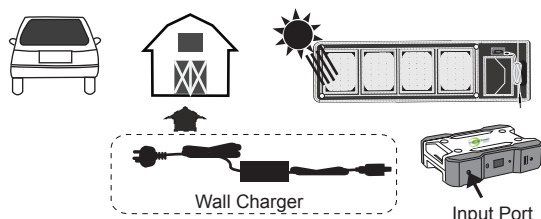
There is a fan inside for cooling.



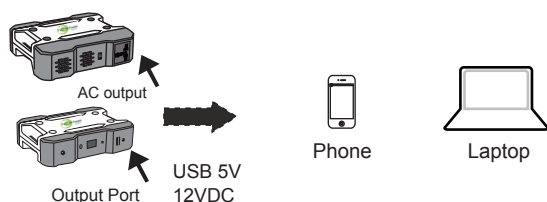
► How to fully charge your Power Pack:

Usage: When you need to charge, turn on the Power Pack using DC button.

Charge From	Times
12VDC Car Charge	4~7 hr
AC Wall Charge	4~6 hr
Solar panel up to 12V 40W	5~15hr



► How to use your Power Pack to power DC, USB, or AC devices:



► Fault diagnostics:

Q. Why will the Power Pack not charge?

A: Confirm that if you are charging from a wall outlet you are using the charger provided.
Confirm that if you use a solar panel that it is 12VDC type and no more than 40W capacity.
Confirm that if you are charging from a car or boat that the engine is running during charging.

Q. Why will the Power Pack not automatically recharge if you accidentally disconnect and then reconnect immediately?

A: First: Confirm that you are using the correct charger.
Second: If the current or voltage is too high, the Power Pack will engage its automatic protection feature.
Disconnect charger and restart, it should function normally.

Q. Why does the screen turn off when the Power Pack is fully charged?

A: The Power Pack automatically turns the screen off to save power. Restart the Power Pack and the screen should turn on.

Q. Why will the Power Pack not turn on when DC Button is pressed?

A: The battery voltage may be too low. Charge the Power Pack using the charger provided for about 1 minute connected to the 12V 5A Output Port. This will provide enough power to the batteries to allow it to turn on and then accept normal charging to the input port.

Q. Why is there no output from the “DC Output” after turn on, when the Power Pack has been operating normally?

A: Confirm that the load does not exceed the 12V/5A rating.
If the load rate is more than 5A, the Power Pack's automatic protection feature will activate. Reset your Power Pack and it should then function normally.

► Warnings and Cautions:

1. The Power Pack is suitable for short term, temporary power.
2. Please use only our recommended charger and/or solar panel.
3. We do not suggest connecting the Power Pack to high current loads for extended periods.
4. We recommend that total output does not exceed 100W.
5. Keep your Power Pack away from fire, heat, flammable and/or combustible products.
6. Avoid any improper connections that may cause short circuits.
7. Do not leave Power Packs in areas where temperatures exceed 60 C, this may cause battery life to deteriorate faster than normal.
8. Do not use your Power Pack with wet hands or in wet conditions.
9. Always turn off the Power Pack when not in use.

► Item list:

Part No.	Part Name	Quantity
1	Tycon Power Pack	1 pc
2	DC Barrel to Wire Term Adapter	2 pcs
3	Wall Adapter	1 pc
4	User Guide	1 pc