



POWERGORILLA
POWERGORILLA TACTICAL
5V TO 24V
RUGGED
HIGH TECH
CHARGER
USER GUIDE

YOU CAN: CHARGE LAPTOPS
NETBOOKS TABLETS SMARTPHONES
SAT PHONES SLR CAMERAS GPS
SMART WATCHES & MORE

powertraveller
without boundaries

INDEX

What's in the box	3
Technical specifications	4
Dimensions, capacity and output currents	5
powergorilla diagram	6
LCD screen	7
Diagram descriptions	8
Using the powergorilla	
1. Turning on the powergorilla	10
2. Recharging the powergorilla	10
3. Charging devices via DC	10
4. Charging devices via USB	11
5. Permanent USB on mode	11
6. Permanent DC on mode	11
7. UPS feature	12
8. Daisy chain feature	12
9. Safety lock on feature	12
10. Recharging via solar	13
Frequently asked questions	14
Product disposal instructions	15
Safety features	15

IN THE BOX

- powergorilla portable charger
- 19V universal AC mains charger
- 80cm DC out cable
- USB to USB-C cable
- Female USB-C to male micro USB adaptor
- Connector tips pack
- Female 12V socket
- Neoprene case

ADDITIONAL EXTRAS AVAILABLE

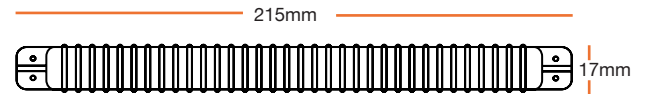
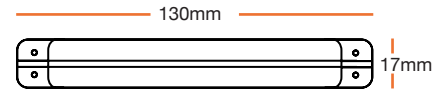
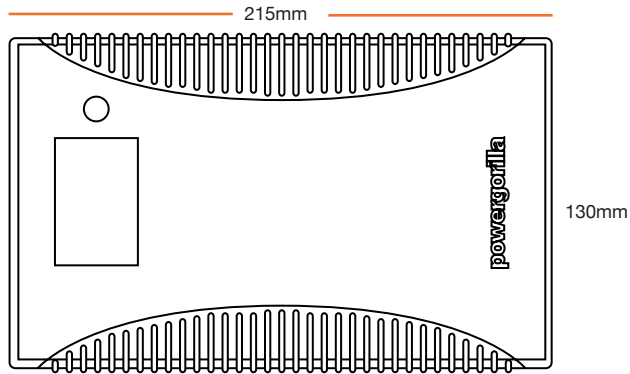
- solargorilla 10 Watt solar powered charger
- Y cable
- In-car charger

* If you require a tip that is not included, please email support@powertraveller.com for help.

TECHNICAL SPECIFICATIONS

Parameters	Description
Weight	700g
Capacity	24,000mAh (88Wh)
Cells	4 x 6000mAh
Dimensions	(L*W*H*) 215 x 130 x 17mm
Battery type	Lithium Polymer rechargeable
Input	powergorilla: 15-25V / powergorilla tactical: 15-30V
Output	5V USB, DC: 12V, 16V, 19V, 24V
Material	Aluminium housing with shock resistant rubber protection strips
Working temperature	-20° to 60°C
Storage temperature	-20 to 60°C

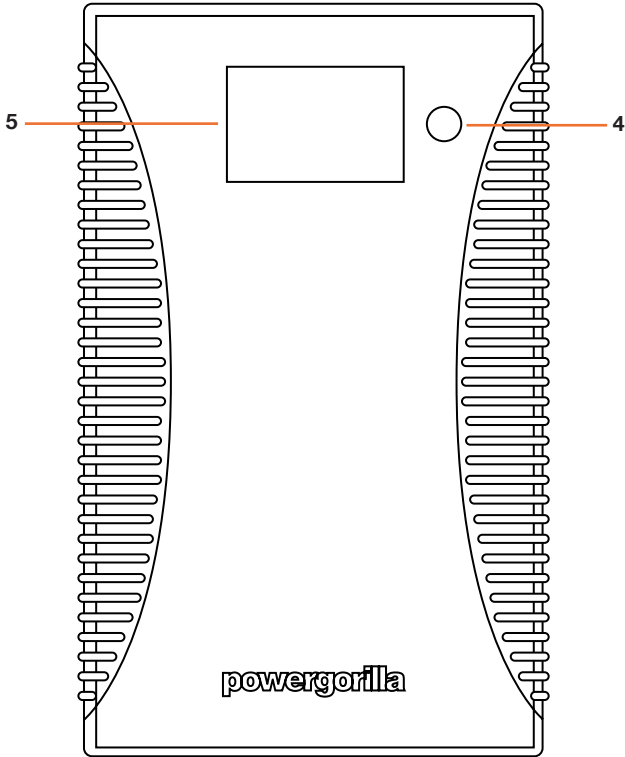
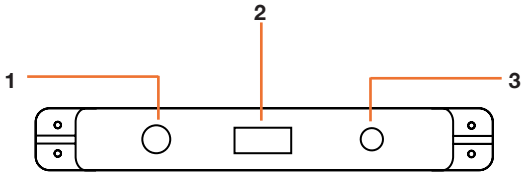
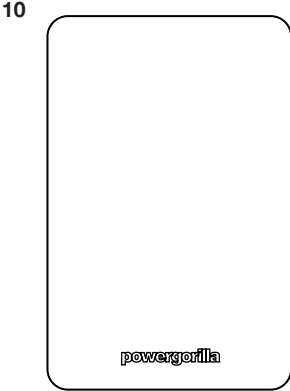
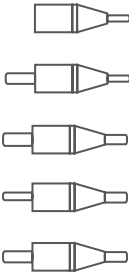
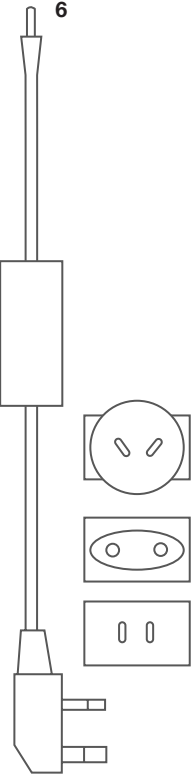
DIMENSIONS



CAPACITY & DC OUTPUT CURRENTS

Voltage	mAh	Amp
5V USB	17,700	2.4A Max
12V	7,400	4A Max
16V	5,500	4A Max
19V	4,600	4A Max
24V	3,700	3A Max

POWERGORILLA DIAGRAM



LCD SCREEN DIAGRAM

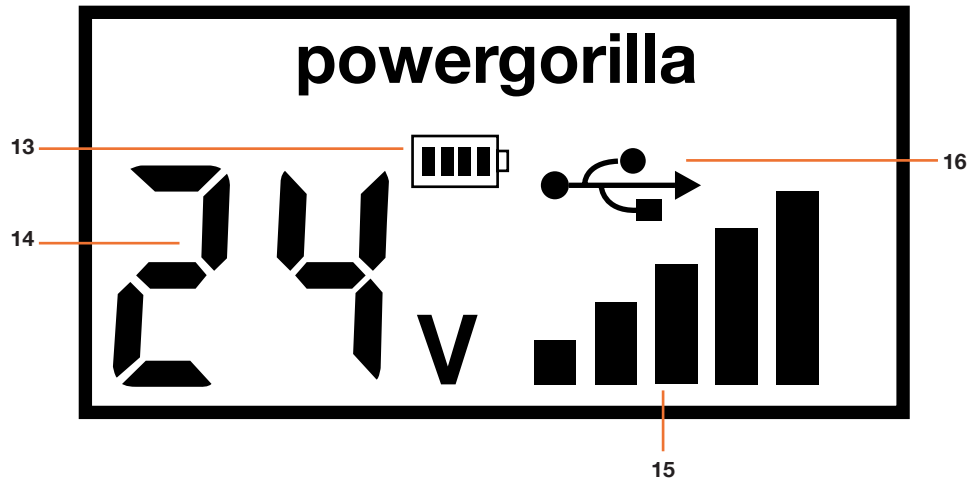


DIAGRAM DESCRIPTIONS

1. DC IN (DC 5.5 x 2.1mm)

powergorilla input from: 15-25V Max

powergorilla tactical from: 15-30V Max

2. USB SOCKET

5V 2.4A Max

3. DC OUT

Output from: 8.4V, 9.5V, 12V, 16V, 19V, 24V

DC 4.7 x 1.7mm

4. ON/OFF BUTTON

To turn the unit on or off, hold down the button for 3 seconds. The on/off button also enables the user to select the correct output voltage to charge their device.

5. LCD SCREEN

powergorilla - Blue LCD screen / powergorilla tactical - Red LCD screen

The LCD screen shows the status of USB and DC output voltage settings and the battery level.

6. AC MAINS CHARGER

19V mains charger with 4 interchangeable heads for UK, Europe, US/China and Australia.

7. DC CABLE

4.7 x 1.75 to female 4.7 x 1.75mm

8. USB TO USB-C CABLE

USB to USB-C cable

9. LAPTOP TIP PACK

Selection of laptop tips.

10. NEOPRENE CASE

Protective storage case for the powergorilla unit.

11. FEMALE 12V SOCKET

In-car charger socket for SLR cameras or any other 12V electronic device.

12. FEMALE USB-C TO MICRO USB ADAPTOR

This adaptor converts the USB-C end of the USB to USB-C cable (8) to micro USB.

13. BATTERY ICON

When the battery icon flashes, this indicates that there is less than 10% power left in the powergorilla.

The battery icon does not represent the amount of power left.

14. VOLTAGE SETTING

The different settings can be seen from this section of the screen. By tapping the on/off button (4), you can scroll through the voltage settings.

15. LEVEL OF CHARGE

The level of charge remaining in your powergorilla is shown by the vertical bars. A fully charged powergorilla will be denoted by six solid vertical bars. As the six bars decrease, available power decreases.

16. USB SYMBOL

The USB symbol is permanently shown allowing simultaneous charging of USB and DC devices.

USING THE POWERGORILLA

This user guide covers both the powergorilla and the powergorilla tactical as they are identical in functionality and power capability. The differences between the two are the colour of the unit and the colour of the LCD screen.

1. Turning on the powergorilla

- To turn on the powergorilla, hold down the on/off button (4) for 3 seconds. Repeat to turn the unit off.

2. Recharging the powergorilla

- Recharge powergorilla via the universal AC mains charger supplied (6) with the appropriate plug head into an electrical wall socket. Connect the DC end of the cable into the DC in port (1) of powergorilla.
- The LCD screen (5) will illuminate and the vertical bars will increase as it is being charged.
- When the sixth vertical bar is no longer flashing, this means the powergorilla is fully charged.
- Always disconnect the AC mains charger (6) when the powergorilla is fully charged or not in use.

NOTE: Please only use the AC mains charger provided to charge the powergorilla or official Powertraveller in-car charger (available separately) Using a 3rd party AC mains charger may invalidate your warranty.

3. Charging devices via DC out port

- When connecting a device to the powergorilla, e.g. a laptop, please check the laptop's input voltage. This can be found on the laptop's AC/mains adaptor or the user guide supplied with your laptop.
- Connect the DC cable (7) to the DC out port (3). Select the correct tip required from the tip pack (9).
- Select the required output voltage on the LCD screen (5). Do this by tapping the on/off button (4) until the desired voltage is displayed on the LCD screen (5).
- When finished charging/powering, turn off powergorilla by holding down the on/off button (4) for 3 seconds and disconnect the cable. powergorilla will turn itself off when device connected is fully charged.

4. Charging devices from powergorilla via USB out port

- Turn the powergorilla on by holding down the on/off button (4) for 3 seconds.
- For 5V USB-C devices, use the USB to USB-C cable (8) or your devices' own USB-C sync/charging cable.
- For 5V USB devices, use the USB to USB-C cable (8) along with the female USB-C to micro USB adaptor (12) or your devices' own USB-C sync/charging cable.
- The powergorilla will stop charging once the device is fully charged.

5. Permanent USB on mode ('88' setting)

- This feature is used if the USB device draws only a small amount of power.
- Disconnect all cables from the USB and DC out sockets.
- Turn the powergorilla on by holding down the on/off button (4) for 3 seconds.
- Tap on/off button (4) until the '88' function is shown on the LCD screen (5).
- The back light will remain on while this feature is enabled.
- You may now connect your device to the USB port (2).
- While this feature is in use, the DC out will output at 12V.
- You can simply press the on/off button (4) again to disable this feature.

6. Permanent DC on mode

- This feature is used if the DC device draws only a small amount of power.
- Turn the powergorilla on by holding down the on/off button (4) for 3 seconds.
- Select the correct DC voltage for your device by tapping the on/off button (4) until desired voltage is shown.
- Press the on/off button (4) twice in quick succession.
- The LCD screen will illuminate and on until the powergorilla is manually turned off.

7. UPS feature

- Turn on the powergorilla by holding down the on/off button (4) for 3 seconds.
- Tap the on/off button (4) until the 19V setting is show on the LCD screen (5).
- Connect the universal AC mains charger (6) to the powergorilla and connect it to the electrical socket.
- If the power supply is interrupted, the powergorilla will stay permanently on when on the 19V setting.

8. Daisy chain feature

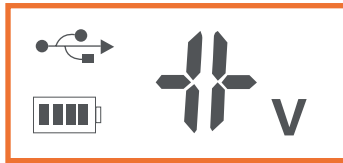
- When using the 19V AC mains charger (6) to charge the powergorilla, the DC out port (3) will be set at 19V. This will enable you to charge your laptop for example and powergorilla at the same time.
- While charging with the 19V AC mains charger (6), you are also able to charge USB devices simultaneously.

9. Safety lock on feature

- When a device is connected and drawing enough power to be detected by the powergorilla, the LCD screen (5) will flash 3 times. The voltage setting will be locked on to avoid accidental voltage change when charging a device. To change the voltage when the safety lock on feature is enabled, hold down the on/off button (4) for 3 seconds and scroll through.

10. Recharging via solar

- The powergorilla can be charged via the sun using the solargorilla solar panel (not included).
- The solargorilla (our recommended solar panel for use with the powergorilla) is equipped with Maximum Power Point Tracking (MPPT) technology. This maximises the solar panel's efficiency for any given weather condition and protects the battery from over-charging or excessive discharging. In low light conditions, this technology improves efficiency by up to 60%.
- The powergorilla will automatically detect when the solargorilla solar charger is connected and the symbol below will be displayed. This will disable the DC OUT port (3) and USB (2) on the powergorilla. The internal circuits will also turn off to improve charging efficiency and reduce charge times from solar.



- Select the L52D tip and connect it to the 2m charging cable both supplied with the solargorilla and insert the tip into the DC IN (1) of the powergorilla. Place the solargorilla panel in the sun.
- For further information on the solargorilla, please visit www.powertraveller.com

FREQUENTLY ASKED QUESTIONS

- **Can I use the powergorilla straight away without charging?**

Yes, the powergorilla only comes 30% pre-charged. This limit is set according to airline regulations and is ready to use straight out of the box. However, we do recommend fully charging the powergorilla within 7 days of receiving it, and at least once every 4 months thereafter.

- **What are connector tips?**

Connector tips are attachments to make the powergorilla compatible with various devices.

- **What if I can't find the right tip?**

Please refer to www.powertraveller.com - tips/adaptors. These are updated on a regular basis.

- **Why does the powergorilla auto shut down?**

This can be for various reasons:

1. Device is fully charged.
2. The powergorilla has run out of power and needs recharging.
3. A safety feature has been activated.
4. Your device is not drawing enough power from the powergorilla.

- **My powergorilla shuts down when charging my USB device.**

This may happen when your device is only drawing a very small amount of power and is not being detected by the powergorilla. Select the '88' setting on the LCD screen to lock the USB on. Refer to page 12.

- **Can I charge the powergorilla via solar?**

Yes, it is compatible with the 20V solargorilla (sold separately). Refer to recharging via solar on page 13.

- **If I accidentally left my powergorilla turned on with no device attached, how long would it stay on for?**

It will automatically turn off after 1 minute.

- **My powergorilla will not turn on. It shuts down when it still has power left in it.**

A safety feature may have been triggered. Connect the powergorilla to the AC electrical wall socket with the included AC mains charger (6) for at least 10 seconds. This will reset the powergorilla.

- **I've attached a device and the LCD screen is flashing and the powergorilla shuts down.**

This happens when the device attached is drawing too much power from the powergorilla. Try using a lower power consumption setting on your device or charging with the device turned off.

- **Can I use 2 or more powergorilla's to speed up the powering time of my device?**

Yes, from DC out (3) you can power from multiple powergorilla chargers with our Y or 4 way cable (available separately).

- **The DC out port turns off when my device is not fully charged.**

This may happen when your device is only drawing a very small amount of power and is not being recognised by powergorilla. Select the correct DC voltage for your device. Press the on/off button (4) twice in quick succession. The LCD screen will illuminate and stay on until the powergorilla is manually turned off. Refer to Permanent DC on mode on page 11.

- **Which voltage should I use to charge my smartphone?**

The USB port can charge your smartphone.

PRODUCT DISPOSAL CERTIFICATIONS



- **There's a strange symbol on my screen.**



When connected to solar, you will see this symbol on the LCD screen (5). While in this mode the DC out will not function. This is so the powergorilla collects as much power as possible from the solar panel. Please refer to page 13.

- **Can I simultaneously charge from the DC out?**

Yes, you can simultaneously charge and use a device at the same time as long as the charging voltage in is the same as the charging voltage out. The AC mains charger is 19V therefore the DC out will be at 19V.

- **Can I charge my 5V device and DC device at the same time?**

Yes, you can simultaneously charge 5V devices when charging DC devices as well.

- **How long does it take to charge the powergorilla?**

Approximately 3-5 hours.

- **Can I charge the powergorilla from a USB port?**

No, the powergorilla cannot be charged via USB.

- **Does the powergorilla automatically recognise the voltage my device requires?**

No, you have to select the correct voltage before connecting and turning your device on.

The symbol shown here and on the product means that the product is classed as Electrical or Electronic Equipment and should not be disposed with other household or commercial waste at the end of its working life.

The Waste of Electrical and Electronic Equipment (WEEE) Directive (2002/96/EC) has been put in place to recycle products using best available recovery and recycling techniques to minimise the impact on the environment, treat any hazardous substances and avoid the increasing landfill.

Product disposal instructions for residential users

When you have no further use for it, please remove any batteries and dispose of them and the product as per your local authority's recycling processes. For more information, please contact your local authority or the retailer where the product was purchased.

Product disposal instructions for business users

Business users should contact their suppliers and check the terms and conditions of the purchase contract and ensure that this product is not mixed with other commercial waste for disposal.

SAFETY FEATURES

- Voltage limitation protection
- Current limitation protection
- Short circuit limitation protection
- Anti-discharge limitation protection
- Over-charging limitation protection
- Overheating protection
- Power surge protection
- Drop tested: UN 38.3

POWERGORILLA

AC TRANSFORMER



POWERGORILLA

POWERGORILLA TACTICAL

POWERTRAVELLER INTERNATIONAL LIMITED

4 Delta Park, Wilsom Road,

Alton, Hampshire

GU34 2RQ, UK

t: +44 (0) 1420 542980

info@powertraveller.com

www.powertraveller.com

powertraveller
without boundaries