

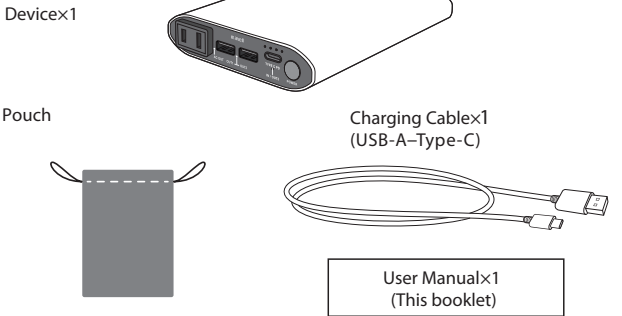
Mobile charging battery with electric outlet Mobile Battery

MPC-CAC12800

User Manual

Thank you for purchasing the Maxell product. Please carefully read this instruction manual before use and use it correctly.

Content of the Package



1 Introduction

Before reading the user manual

- This instruction manual is subject to change without notice.
- In order to improve the product, appearance of some parts or specifications may be changed without notice.
- Unauthorized duplication of part or all of this instruction manual is prohibited except for personal use. Moreover, without permission unauthorized reprinting of this manual is strictly prohibited.

Warning

Do not connect to medical equipment	
Because this product is a pseudo sine wave. The equipment may not work properly and there is a risk of affecting medical behavior.	
Do not use if there is abnormality such as overheating, discoloration, deformation, odor, etc. during storage or use	
Ignition, rupture, leakage or injury may result.	
When leaked liquid from this product adheres to the skin and clothing, immediately rinse with clean water	
It may cause damage to the skin.	
If the charging is not completed with in the predetermined charging time, please do not charging	
It may cause liquid leakage, overheating, fire, or rupture etc.	
Do not use the product in locations with high humidity such as a bathroom	
It may cause overheating, electric shock or malfunction.	
Avoid stong impact to the product by stepping on or allowing the product to fall	
Doing so may cause deformation ,leakage, overheating, ignition, rupture, breakdown, etc.	
Do not place flammable materials or heavy objects on the product, or cover or wrap with blankets or cushions	
It may cause overheating, ignition, rupture or liquid leakage.	
Do not place in cooking equipment such as microwave oven or high pressure vessel	
It may cause overheating, smoke emission, fire or breakdown.	
Do not use the product in locations where there is adanger of ignition or explosion	
It may cause explosion or fire.	
Do not use with wet hands	
It may cause overheating, electric shock, malfunction, etc.	

2 Safety Precautions

Please be sure to observe it for safe use.

Danger:	Danger refers to misuse which might lead to death or serious injury ^{*1} to a high degree.
Warning:	Warning refers to misuse which might lead to death or serious injury.
Caution:	Caution refers to misuse which might lead to injury ^{*2} and may cause property damage ^{*3} .

- *1: Severe injury refers to things that have after effects such as blindness, injury, burns, electric shock, fractures, poisoning, etc., and those requiring hospitalization or long-term regular hospital visits for treatment.
- *2: Minor injury indicate injury, burns, electric shocks that do not require hospitalization or long-term regular hospital visits for treatment.
- *3: "Property damage" refers to indirect damage related to houses, household goods, livestock and pets.

Symbol indication		stands for caution to fire, explosion, high temperature when handling the product. Details will be illustrated inside the symbol. (e.g. Electric shock)
		stands for prohibited actions when handling the product. Details will be illustrated inside or next to the symbol or with written description next to it. (e.g. Do not decompose)
		stands for instruction which must be followed. Details will be illustrated inside or next to the symbol or with written description next to it. (e.g. Remove plug from socket)

Danger

Make sure the AC plug and USB connector are securely inserted into the base	
If it is used with insufficient insertion, it may cause fire due to the combination of electric shock and accumulation of dust.	
Do not use a power supply other than one with the specified power supply voltage	
When charging, please use the specified voltage of the dedicated AC power adapter. Please do not connect to a direct current (DC) power supply of a ship etc. It may cause overheating, fire, malfunction, electric shock or injury.	

Warning

Do not insert metal etc into the main unit and terminals	
It may cause overheating, electric shock, malfunction, etc.	
In case when the product is used by children, parents should instruct children how to use it in a safe manner	
Please check whether the product is used safely during use. It may cause electric shock or injury.	
Use and store it out of reach of children	
It may cause electric shock or injury.	
If lightning approaches while charging this product, immediately unplug the cable and stop charging	
It may cause electric shock fire or breakdown, malfunction, etc.	

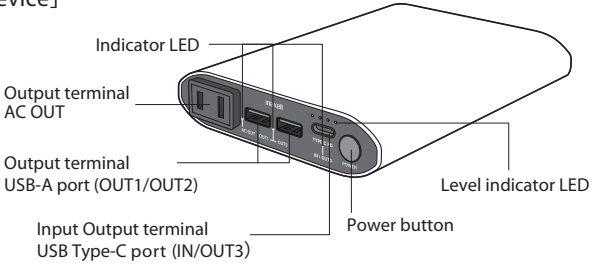
Caution

Do not place in locations where it is easy to fall or in locations with high levels of magnetism and dust	
Failure to do so may result in injury, overheating, fire, rupture, leakage, malfunction.	
Charge in the temperature range of 0 to 35°C	
Charging at temperatures outside this range may cause leakage, overheating, explosion or failure.	
Charge at least once every 6 months	
Charging may not be possible if it is fully discharged.	
Do not stretch or focibly fold the cable or swing around the product	
Doing so may cause deformation, leakage, overheating, ignition, rupture or breakdown.	
Do not connect to devices exceeding AC 100V and/ or 65W maximum	
It may cause overheating, fire, or malfunction.	

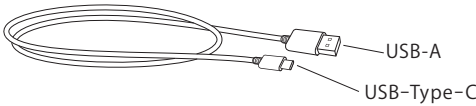
Do not disassemble or modify	
Due to internal short circuit, it may cause overheating, ignition, rupture, liquid leakage or malfunction.	
Keep away from liquids	
If liquids such as water, seawater, juice enters, it may cause overheating, ignition, liquid leakage, electric shock or malfunction.	
Do not short-circuit terminals	
Please do not carry or store with metallic necklace or hairpin etc. It may cause overheating, electric shock, failure or injury.	
Do not store or use in a locations with high temperature	
Do not place it in a location where it will be hot such as near fire, stove, direct sunlight, under the car under the scorching sun. It may cause deformation, liquid leakage, ignition, breakdown, malfunction.	
Keep away from fire	
Please keep away from fire or do not heat it. It may cause overheating, ignition, rupture or liquid leakage.	
Do not touch leaked liquid	
If liquid leaks from this device and gets into the eye, do not rub. Rinse with plenty of clean water immediately and consult a doctor. It may cause blindness.	
Do not use damaged cables	
Do not damage the cable, process it or twist it. Also, please do not place heavy objects on the device and avoid being trapped underneath it. When the core wire is exposed, be sure to replace the cable with a new cable. If used under these circumstances, it may cause fire, electric shock etc.	
In case of abnormality, unplug the power plug from the outlet	
In case of smoke, if a strange smell or sound occurs, when water or foreign matter enters inside, or if you dropped this product, immediately unplug the power plug of your equipment from the AC OUT. If used under these circumstances, it may cause overheating, ignition, breakdown, electric shock.	

3 Part Names

[Device]



[Charging Cable]



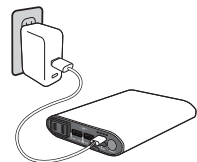
Level indicator

Remaining Capacity	LED Display	
	Charging	Other than charging
0%	—	● ● ● ●
0~10%	● ● ● ✨	● ● ● ✨
10~25%		● ● ● ○
25~50%	● ● ✨ ○	● ● ○ ○
50~75%	● ✨ ○ ○	● ○ ○ ○
75~100%	✨ ○ ○ ○	○ ○ ○ ○
100% (完成充电)	○ ○ ○ ○	

○ …Light on ✨ …Light flashing ● …Light off
※ LED display during discharge may experience deviation due to the load during discharge.

4 Operating Instructions

Charge this product
(After purchase, please charge before use.)



- Connect a commercially available AC adapter with USB-A output and the charging cable that is supplied with this product, and plug the Type-C plug into the In/Out terminal (IN/OUT3) of the main unit and plug the AC adapter into a household outlet. While charging, the remaining capacity indicator LED lights up and flashes according to the battery capacity.
- When the battery is fully charged, the remaining amount LED indicators will all be lit so please disconnect the dedicated power adapter.

Approx. charging time

Charging Method	0 →100%
When using an AC adapter with 5V1A USB-A output	approx. 13hrs
When using an AC adapter with 5V2A USB-A output	approx. 7hrs

It can be charged faster by using a commercially available USB Type-C output AC adapter and Type-C cable.

(Recommended: USB Type-C output AC adapter MACA-TYC02 manufactured by our company)

Charging Method	0 →100%
When using an AC adapter compatible with Type-C PD (18W or more)	approx. 4hrs

PD: Abbreviation for POWER DELIVERY. USB power extension standard that enables supply and demand transmission up to 100W using a USB cable.

Caution

●The charging time varies according to the type of AC adapter used. ●If charging can not be completed even after the elapse of the specified time, please discontinue charging. ●Even if you do not use this product for a long period of time, please charge at least once every 6 months. Charging may not be possible if it is fully discharged.

Power up the unit

AC OUT and USB-A port, press the power button to start / Stop power feeding.
- Using AC OUT (eg, powering a laptop PC)
Insert the dedicated AC plug of the AC adapter included with the laptop PC into the output terminal AC OUT of this product, press the Power button.

6 Troubleshooting (When problems arise)

Phenomenon	Cause	Solution
LED lights up and does not flash when charging this product. Or, the charging time is longer than the predetermined time	The AC adapter output current is insufficient and the protection circuit is operated	Use an AC adapter that exceeds the rated input current of this product
	The AC adapter is not connected properly	Ensure proper connection
	Temperature of charging location exceeds working temperature range	Ensure that the temperature of the location where product is being charged is within the operating temperature range
The body of the device is warm	The battery is stored for a long time while the remaining charge in the battery is 0	Please charge once every 6 months not to discharge completely
	It is not abnormal for the body of the main unit while charging / discharging and immediately Use it after a while after charging/ discharging to become warm	Use it after a while
LED does not light up when the power button is pushed	Low battery	Charge
	Overcurrent circuit protection is activated	Check the operating current (power consumption) of the equipment. Charge it.
Output stop or, Repeat ON/OFF Equipment could not be charged. (AC OUT)	The power consumption of the device used is small and the auto power off function is operated	Power supply automatically stops in about 60 seconds when it is less than 5W
	Equipment is not connected properly	Ensure proper connection
	Connecting devices that require a stable accurate waveform and frequency	It can not be used. Please check the equipment used. (This product has an output of AC100 V 50HZ pseudo sine wave)
	Load fluctuation of equipment to be used/charged is large	The product can not be used when the device's input power exceed the displayed power consumption 65W Instantaneously

※Some equipment did not support with pseudo sine wave
Depending on the equipment you use, so please check before use.

- Supply power to the device using the USB-A port (OUT1/OUT2) (Example: charging a smartphone)
If the device uses a Type-C input, connect it to the device using the charging cable that is supplied with this product and press the power button. If the device uses a Micro-B input, connect to the device using the charging cable supplied with the target device or a commercially available USB-A Micro-B cable. Also, when connecting a USB-A-Lightning cable, OUT1 port can be used for fast charging up to 2.4A.

To stop the power supply, press the power button to turn off the output, and then unplug the connected cable. In addition, when no load condition (less than 5W of AC output, less than 100mA of USB output) is detected the power is automatically turned off in about 60 seconds.

-Supply power to the device using the Type-C port (Example: charging a smartphone) The Type-C port will automatically start supplying power when the device is connected. Connect the device using a commercially available Type-C cable. To stop the power supply, disconnect the connected cable. If the Type-C port of the connected device is for both input and output (DRP mode), the product may be charged. In that case, disconnect the cable and reconnect.

Checking battery level

When the power button is pressed, the indicator LED and the remaining amount indicator LED will light as soon as the output starts. Press the power button again to stop the output and LED lights will be turned off.

Caution

- While charging this product, AC OUT and USB-A (OUT1/OUT2) can not be used. Furthermore, AC OUT cannot be used while using Type-C (OUT3) output.
- The maximum total output of all connected devices at one time (USB port, total of AC OUT) is 65 W. The maximum rating of each output terminal is: USB port: DC 5 V / maximum 2.4 A (maximum 12 W), AC OUT: AC 100 V / 65 W Type-C port: DC15V2A (max. 30W). When the supply current to the connected equipment exceeds the rating, circuit protection may operate which will cut the power supply.
- When the USB-A port is less than 0.1 A supply and AC OUT is 5W or less, the automatic stop function operates and the power stops.
- When the battery's remaining capacity of this product is low, the output current may be limited.
- In the unlikely event that data is lost whilst equipment is connected to this product, we will not take responsibility for lost data whilst using this product.

Phenomenon	Cause	Solution
Output stop or, Repeat ON/OFF Equipment could not be charged. (AC OUT)	Equipment with the maximum rating or more is being used or charged, the protection circuit is operated	Confirm current usage (power consumption) of equipment
The device can not be charged (USB-A, USB Type-C)	Equipment is not connected properly	Ensure proper connection
	Equipment with the maximum rating or more is being used or charged	Confirm current usage (power consumption) of equipment
	The power consumption of the device used is small and the auto power off function is operated	The USB-A, Type-C port automatically shuts off in about 60 seconds when the load current is less than 100 mA
Short discharge time	Low battery level	Charge
	Battery has reached the end of its life	If the discharge time becomes extremely short even when it is fully charged, then the battery has reached the end of its life

[Caution on AC OUT]

- Please check beforehand that the equipment to be connected operates normally before using.
- In some equipment the power consumption at startup may exceed the displayed power consumption. The product can not be used when the power consumption exceeds 65W at any time.
- Compared to household AC power supply (AC 100 V), the capability of the equipment may be reduced.
- Noises may occur on radio or audio players connected to this product.
- If the battery level of this product is low (less than about 10%) it may not start supplying power when the power button is presses. Please use it after charging.

[Caution on USB Port]

- If the device communicates with the PC using data signal cable, power may not be supplied.
- When the battery level of the equipment is 0, it may take time until the equipment can be operated., or it may not able to charge.

5 Maintenance

Please remove any dirt on the device with a neutral detergent or cloth containing water, and wipe it off with a soft, dry cloth. Do not use benzine, thinner, alcohol, etc.

7 Specification

Device	
Dimensions	W109×D150×H26mm (excluding protrusions)
Rated input	Type-C port DC15V/1.2A, 12V/1.5A, 9V/2A, 5V/3A, 5V/2A(PD2.0 Corresponding max. 18W)
Rated output※1	USB-A port DC5V/2.4A (2port total Max. 2.4A) Type-C port DC15V/2A, 12V/2.5A, 9V/3A, 5V/3A(PD2.0 Corresponding max. 30W) AC OUT AC100V/Max. 65W※2 50Hz (pseudo sine wave)
Rated input	approx. 530g
Operating Temperature	0 ~ 35℃
Built-in Battery	Lithium ion battery Rated voltage3.6V / Rated capacity12000mAh※3 (43.2Wh)
Cable length	
Cable	approx. 70cm
Plug shape	USB-A –USB Type-C (56kΩ built-in resistance)

- ※1. Total up to 65W max.
※2. In some devices, the instantaneous power consumption such as at startup, may exceed the displayed power consumption. If the power consumption exceeds 65W, the safety circuit protection will operate which will cut the supply current.
※3. Total value of internal battery. Standard capacity is 12720 mAh.

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