

样品承认书要求:

01. 封面 (供应商&我司承认会签)
02. 图纸/规格
03. 尺寸报告
04. 包装说明
05. 试验报告 (如纸张, 胶水, 装订环证明等)
06. 材质分解表 (如纸张纸的克重品牌, 材质克重和胶水品牌型号等)
07. 材质证明, MSDS (如有第三方正式机构的证明也附加上)
08. IQC检验报告

页数共68P

求要技术

成品尺寸:A5(143\*210mm)


材质:80g书写纸封面封底内页,双面印刷,装订;

颜色:单黑印刷;

所用材质需符合RoHS;

注:印刷需清晰,不能有模糊,脏污,脱墨,花点,重影,印歪,纸张不平整等不良。

版本	更改	审核	日期
A0	首版发布	杨振华	25.01.21
A1	更新技术参数等内容	杨振华	25.03.13
A2	更新参数描述等内容 (P09, P26)	杨振华	25.04.27

<div> <div>深圳市德兰明海新能源股份有限公司</div> <div>Shenzhen PowerOak Newener Co., Ltd</div> </div>				
材 料		表面处理	无特殊说明, 长度单位: mm	
			未标注尺寸公差按:	
型 号	1-P-IP-023-A (Apex 300°)	图纸编号/版本	x. x (两位小数位) ±0.2	x. x (一位小数位) ±0.1
名 称	英法说明书 (美规BLUETTI)	PLP023-6d01A2	x. xx (两位小数位) ±0.05	
			x <sup>o</sup> (角度) ±0.5°	
			* 一重要尺寸 0—参照尺寸	
设 计	审 核	批 准	物料编号	
杨振华			17.0303.0866-02	
2025.04.27			共 张 / 第 张	

# Apex 300

## Portable Power Station

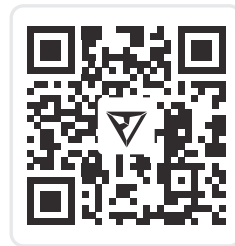
### User Manual v3.0

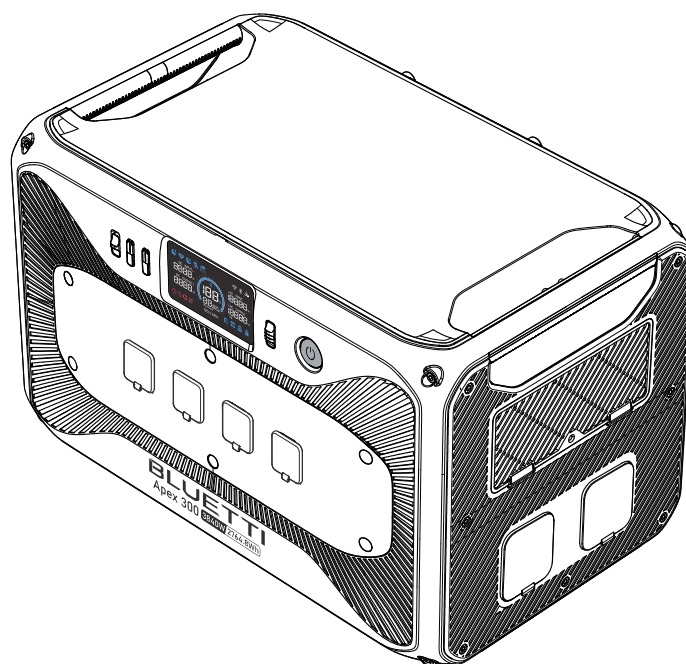
#### Important Instructions

For optimal performance, update your unit to the latest firmware before first use.

See the appendix "Update Firmware via BLUETTI App" for guidance.

Read and understand this manual before use and keep it handy for future reference.





#### Tips

1. Fully charge the unit before first use.
2. Do not use solar panels with open circuit voltage higher than 60V. Solar input voltage range for the unit is 12V-60V.
3. If the unit's SoC falls below 5%, please recharge the unit in time. If the SoC drops to 0, power off the unit and charge it for at least 30 minutes before restarting.
4. If not used for more than 3 months, charge the unit to 40%-60% SoC and store it with the power off. For optimum battery life, discharge and charge the unit every 3 months. It's recommended to charge via an AC source; if using solar energy, ensure an input of over 100W.

## **Legal Information**

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The contents of this manual are subject to change without notice. Please obtain the latest version from BLUETTI official website.

If you have any questions or concerns about this manual, please contact BLUETTI support for further assistance.

**Shenzhen PowerOak Newener Co., Ltd.**

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Website: <https://www.bluettipower.com/>

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## 1. Safety Information

### INSTRUCTIONS PERTAINING TO RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

**WARNING** - When using the product, basic precautions should always be followed, including the following:

- Read all the instructions before using the product.
- Handle the product with care, avoiding drops, violent impacts, or tilting.
- To reduce the risk of injury, close supervision is necessary when the product is used near children.
- Do not put fingers or foreign objects into the product's ports.
- Use of an attachment not recommended or sold by the manufacturer may result in a risk of fire, electric shock, or injury to persons.
- Do not move the product during operation to avoid poor connections.
- Do not expose the battery to high temperatures, as this may cause an explosion or leakage of flammable liquids or gases.
- Do not use the product in the rain or high humidity environments.
- Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion, or risk of injury.
- Handle the product with caution in low air pressure environments to prevent explosions or leaks.
- Charge the product in a well-ventilated area.
- Under abusive conditions, liquid may be ejected from the product's battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Battery liquid may cause irritation or burns.
- In case of fire, use a dry powder fire extinguisher appropriate for the product.
- Never dispose of the product's battery in fire, hot ovens, or by cutting it.
- Do not operate the product with a damaged cord, plug, or output cable.
- To reduce the risk of damage to the electric plug and cord, pull the plug rather than the cord when disconnecting the product.
- Do not disassemble the product; take it to a qualified service person if service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock.
- Unplug the product before any servicing to reduce the risk of electric shock.
- Do not plug or unplug when powered.

- **WARNING - RISK OF EXPLOSIVE GASES.** Follow these instructions and those published by manufacturer of any equipment you intend to use in vicinity of the product to reduce risk of battery explosion.
- **WARNING - RISK OF ELECTRIC SHOCK.** Never use the product to power tools to cut or access live parts, wirings, or materials containing them, such as building walls.
- Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.



The symbols on the unit and its accessories are intended to remind you to read the instructions in the literature accompanying the product before operation and maintenance.

- The socket-outlet should be installed near the product and easily accessible for safety purposes.
- When charging with lead-acid batteries or using the product to charge them, follow these safety precautions:
  - a. Wear complete eye and clothing protection; do not touch eyes when working near a battery.
  - b. No smoking, sparks, or flames near the battery or engine.
  - c. Avoid dropping metal tools onto the battery to prevent sparks or short circuits.

### **Disposal and Recycling**

1. Take old electronic components and batteries to designated recycling centers. This prevents improper disposal and supports material recovery.
2. If possible, fully discharge the batteries and then place them in designated battery recycling boxes. The batteries in this product contain hazardous chemicals. Do not dispose of them with regular household waste. Please follow local laws and regulations for proper battery disposal.
3. If a battery cannot fully discharge due to product malfunction, do not place it in the battery recycling box. Instead, contact a professional battery recycling organization for safe handling.

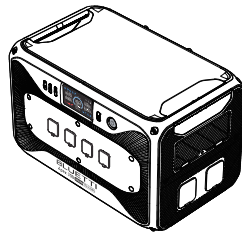
**Grounding Instructions (For AC charging only)**

- This product must be grounded when connected to the grid. If this product should malfunction, grounding provides a path of least resistance for electric current to reduce the risk of electric shock.
- The product is equipped with an AC charging cable having an equipment grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.
- **WARNING** - Improper connection of the grounding conductor can result in a risk of electric shock. Check with a qualified electrician if you're in doubt as to whether the product is properly grounded. Don't modify the plug provided with the product—if it'll not fit the outlet, have a proper outlet installed by a qualified electrician.

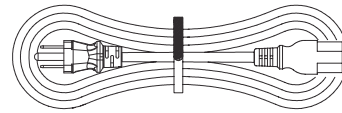
SAVE THESE INSTRUCTIONS



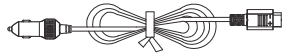
## 2. What's in the Box



Apex 300  
Portable Power Station



AC Charging Cable  
(5.91ft / 180cm)



Car Charging Cable  
(Cig lighter - XT60, 2.41ft / 73.5cm)



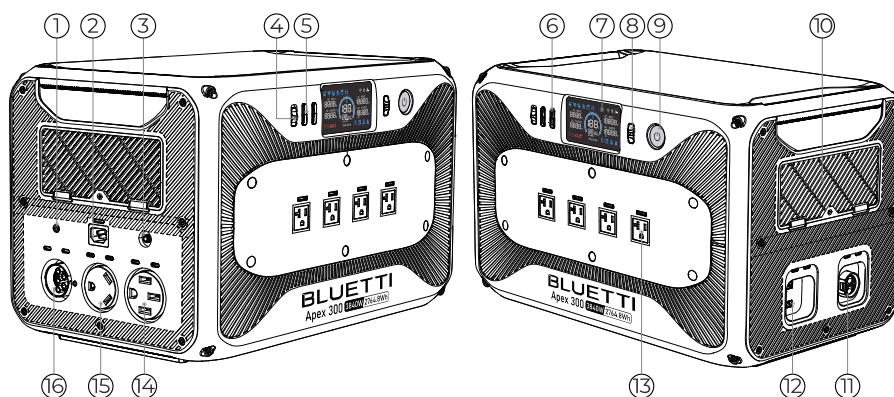
Grounding Screw  
(M5\*10)



User Manual & Warranty Card

### 3. Get to Know Your Apex 300

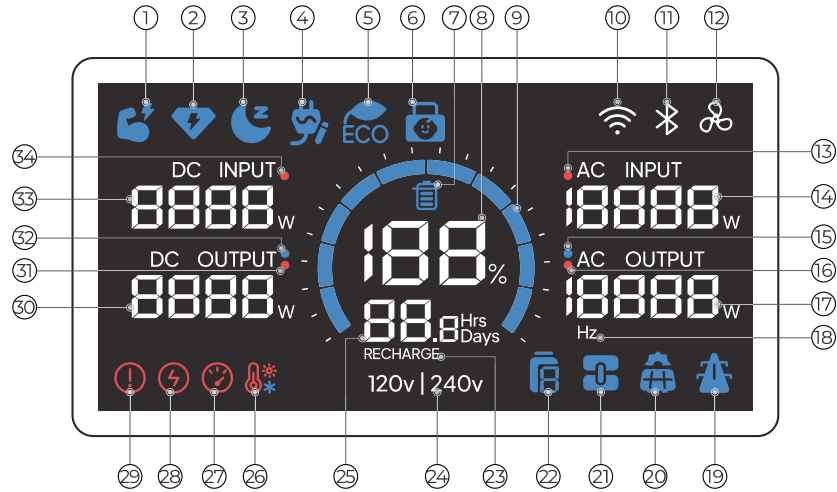
#### 3.1 Apex 300 Overview



- |                              |                                 |
|------------------------------|---------------------------------|
| ① Grounding Terminal*        | ⑨ Power Button                  |
| ② AC Input Outlet            | ⑩ Removable Dust Filter         |
| ③ Circuit Breaker            | ⑪ Battery Expansion Port        |
| ④ AC Output Voltage Selector | ⑫ DC Input                      |
| ⑤ ECO Mode Button            | ⑬ AC Outlet (NEMA 5-20R)        |
| ⑥ AC Power Button            | ⑭ AC Outlet (NEMA 14-50R)       |
| ⑦ LCD Display                | ⑮ AC Outlet (NEMA TT-30R)       |
| ⑧ Charging Mode Selector     | ⑯ AC Input/Output Outlet(P050A) |

\* Used for grounding when powering certain appliances. For assistance, contact us or seek guidance from the appendix "Grounding Guidelines (Minimum cross-sectional area: 8AWG)".

### 3.2 LCD Display



- |                            |                        |                    |
|----------------------------|------------------------|--------------------|
| ① Power Lifting Mode       | ⑬ AC Input Alarm       | ②⑤ Remaining Time* |
| ② Turbo Charging           | ⑭ AC Input Power       | ②⑥ High/Low Temp   |
| ③ Silent Charging          | ⑮ AC Output*           | ②⑦ Overload        |
| ④ AC Output Restore*       | ⑯ AC Output Alarm      | ②⑧ Overcurrent     |
| ⑤ ECO Mode                 | ⑰ AC Output Power      | ②⑨ System Fault    |
| ⑥ Child Lock               | ⑱ AC Output Frequency  | ③⑩ DC Output Power |
| ⑦ Charge/Discharge Limits* | ⑲ AC Input*            | ③① DC Output Alarm |
| ⑧ State of Charge (SoC)    | ⑳ DC Input*            | ③② DC Output*      |
| ⑨ Progress Bar*            | ㉑ Parallel Connection  | ③③ DC Input Power  |
| ⑩ WiFi                     | ㉒ Expansion Batteries* | ③④ DC Input Alarm  |
| ⑪ Bluetooth                | ㉓ Charge Reminder*     |                    |
| ⑫ Fan*                     | ㉔ AC Output Voltage    |                    |

\* AC Output Restore: When the battery is depleted or reaches the SoC low value which causes the unit to shut down, the AC output status will be saved and automatically restored once connected to grid power.

Charge/Discharge Limits: Charging or discharging stops when the set limit is reached.

Progress Bar: Indicates charging progress (fills up during charging or pass-through charging, depletes during discharging).

\* Fan: Flashes when the fan is malfunctioning.

DC/AC Output: Indicates active output.

AC Input: Shows Apex 300 charges via wall outlet or generator.

DC Input: Shows Apex 300 charges via solar panels, cars, or lead-acid batteries.

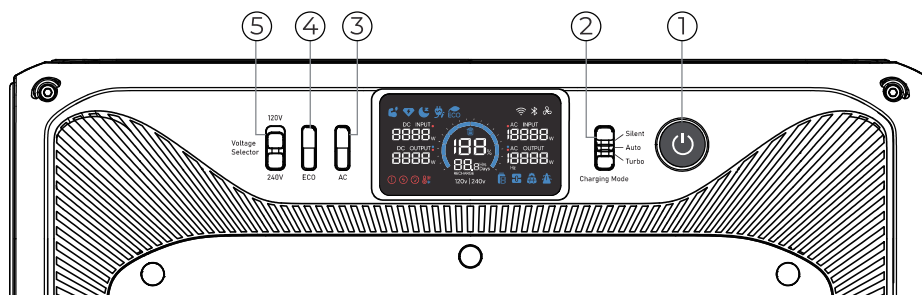
Expansion Batteries: Displays the number of connected expansion batteries.

Charge Reminder: SoC below 5%. Charge the unit in time.

Remaining Time: Shows the time remaining for charging or discharging.

## 4. Use Your Apex 300

### 4.1 Power On/Off



#### ① Power On

Press the power button; the lit button indicates that the Apex 300 is on standby.

#### Power Off

Long press the power button for about 2 seconds to turn off the unit.

#### ② Charging Mode Selector

Silent	Auto (Standard)	Turbo

#### ③ AC Output On/Off

Press the AC power button to turn on when Apex 300 is on. Press again to turn it off.

#### ④ ECO Mode On/Off

Press the ECO mode button to turn on when Apex 300 is on. Press again to turn it off.

#### ⑤ AC Output Voltage Selector

Push up for 120V output or down for 240V output. This switch is unavailable in parallel mode, where the output is set to 240V by default.

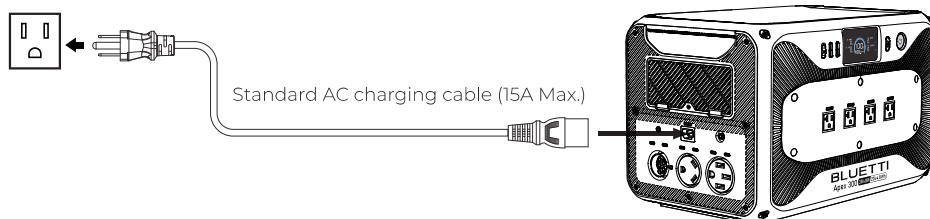
##### Notes:

- To set the charging mode via the app, select "Auto" charging mode.
- When connected in parallel, set all units to "Auto" for the app to control the charging mode.
- When Apex 300 is on, press any button to activate the LCD display.
- Switching between 120V and 240V output voltage cuts off the AC output.

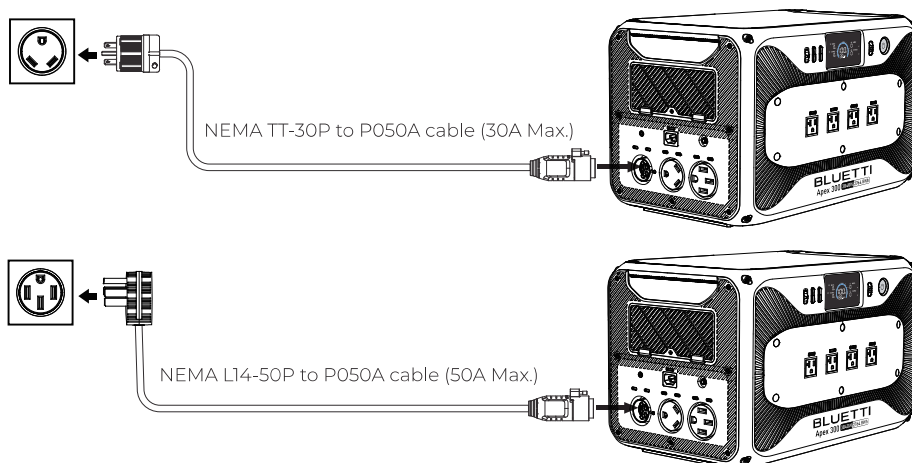
## 4.2 Charging Options

### 4.2.1 Wall Outlet

Plug the Apex 300 into a standard wall outlet. The charging stops once it's fully charged.



For quicker charging, enable Turbo Charging mode using the charging mode selector or the app. Connect the Apex 300 to a wall outlet through the P050A port with the optional NEMA TT-30P to P050A or NEMA L14-50P to P050A cable. This allows the Apex 300 to reach 80% charge in about 45 minutes at an ambient temperature of 77°F (25°C).



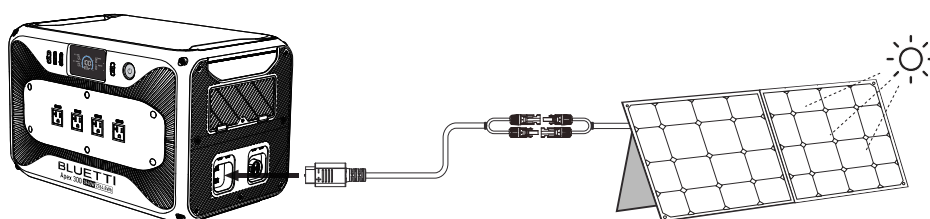
**Note:** Do not plug the unit's AC charging cable into its own AC outlets, as this could damage the connected device.

#### 4.2.2 Solar Panel

Connect your solar panel(s) to the Apex 300 with the solar charging cable (sold separately).

**Note:** Make sure your solar panel(s) meet the following requirements:

Voc: 12V-60V    Current: 20A Max.    Power: 1,200W Max.



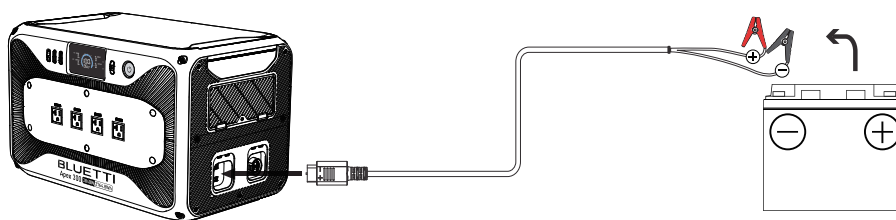
In the advanced mode of the APP, the DC input current can be adjusted.

DC Input Source	Non-Advanced Mode Settings	Advanced Mode Settings
PV	$12V \leq U^* \leq 30V, I^* \leq 8.2A$ $30V < U \leq 60V, I \leq 20A$	$12V \leq U \leq 16V, I \leq 8.2A$ $16V < U \leq 60V, I \leq 20A$

\* U: Solar input voltage; I: Input current

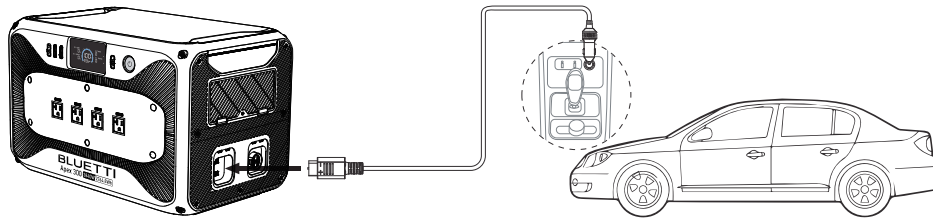
#### 4.2.3 Lead-acid Battery

Connect the Apex 300 to a lead-acid battery using the optional lead-acid battery charging cable. Ensure the red cable is connected to the positive terminal and black to the negative. The maximum charging current is 20A (Use a 24V lead-acid battery and set to PV input mode.).

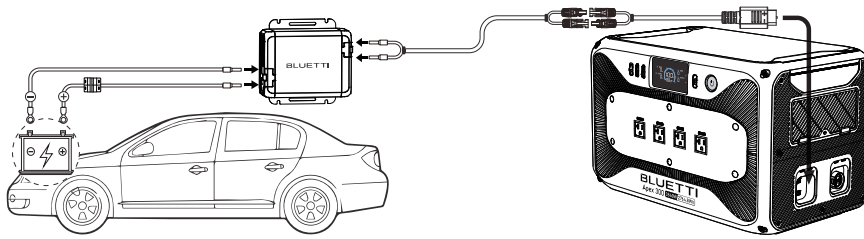


#### 4.2.4 Car

Connect the Apex 300 to your car's 12V or 24V cigarette lighter port using the car charging cable. It charges at up to 96W with a 12V port and 192W with a 24V port, automatically stopping when fully charged.



For faster charging, you can use the optional BLUETTI Charger 1. For details, refer to *CHARGER 1 DC-DC Charger User Manual*.



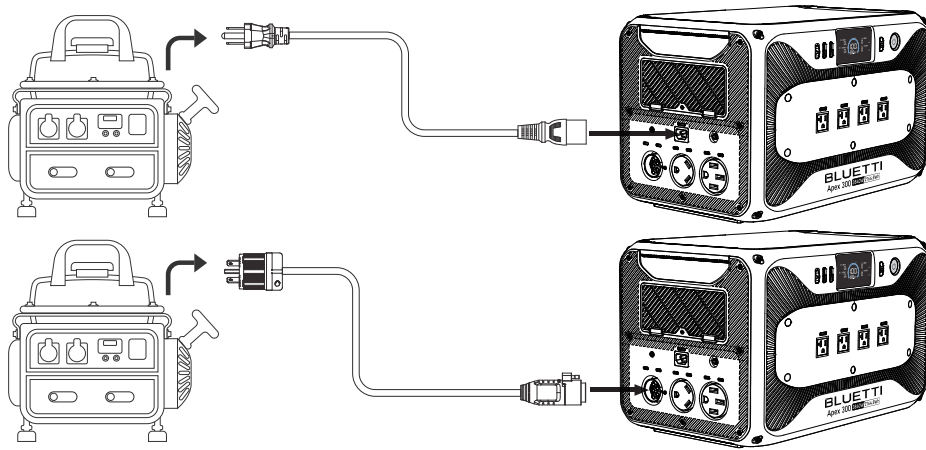
**Note:** Make sure your car has power and the engine is running while charging to prevent over-discharging the car battery.

#### 4.2.5 Generator

Connect the Apex 300 to a gasoline, propane, or diesel generator using the AC charging cable. The charging stops automatically when fully charged.

**Notes:**

- Make sure the generator delivers a pure sine wave output with matching voltage and frequency.
- Ensure the generator's output power exceeds the Apex 300's charging requirements.
- It's recommended to enable the Grid Self-Adaption mode when charging the Apex 300 with a generator.

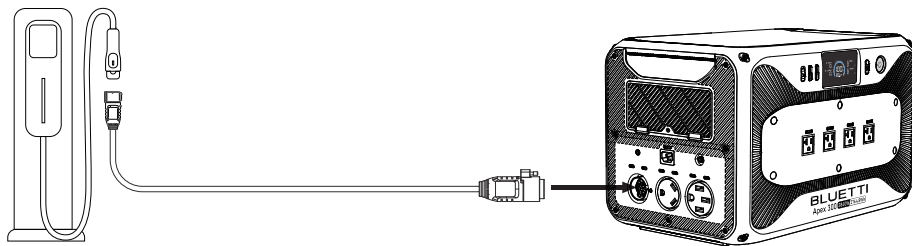


#### 4.2.6 EV Charging Station

Connect the Apex 300 to an EV charging station using the optional EV charging cable (sold separately).

##### **Notes:**

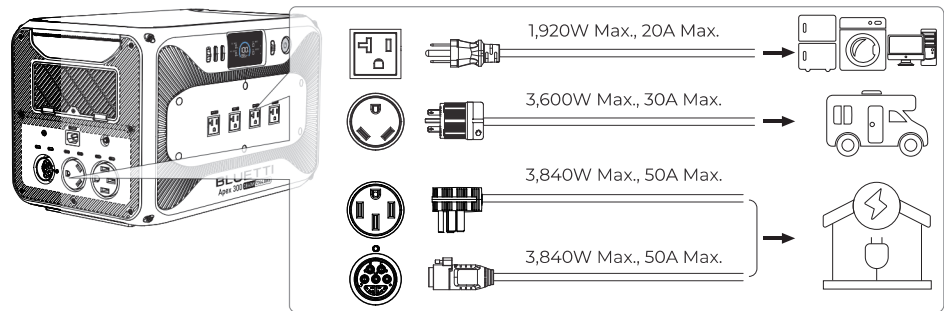
- Make sure the EV charging station delivers a pure sine wave output with matching voltage and frequency.
- Ensure the EV charging station's output power exceeds the Apex 300's charging requirements.
- It's recommended to enable the Charging Station in the app's Advanced Settings.





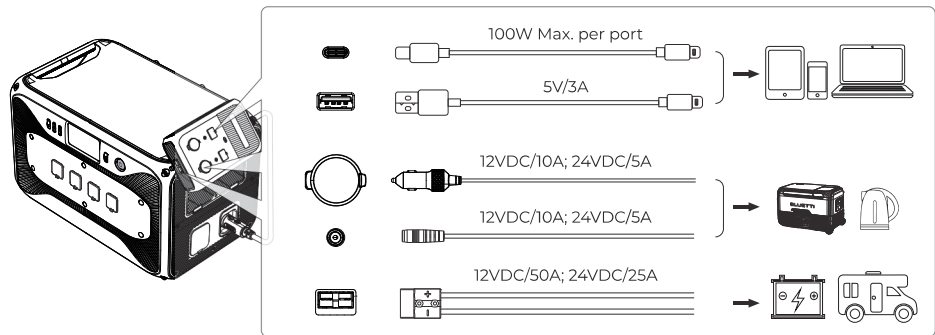
4.3 Power Your Devices

AC Output



**Note:** When servicing the devices connected to the unit, remember to unplug them from the outlets. Even if the AC output is turned off, physically unplugging the devices is necessary for complete disconnection.  
TT-30 can only output 16A Max. when the AC output voltage is switched to 240V.

DC Output



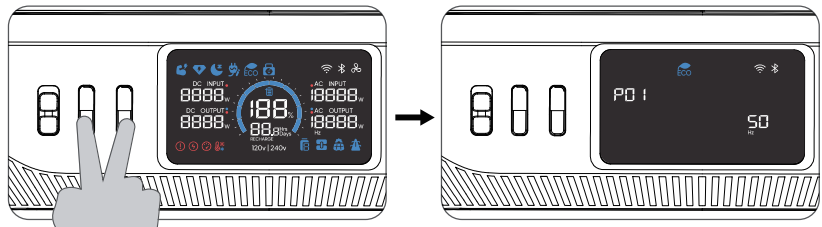
**Note:** A Hub D1 is required. For details, please refer to the *Hub D1 DC Power Hub User Manual*.

5. Configure Your Apex 300

Use the buttons on the unit or the app to switch frequencies, toggle WiFi and Bluetooth, and activate modes like Power Lifting, Turbo and Silent Charging, and ECO. For advanced settings and features - such as Grid Self-Adaption mode, UPS mode, adjusting maximum grid input current, and detailed ECO mode settings - use the BLUETTI app. Refer to the app manual for more details.

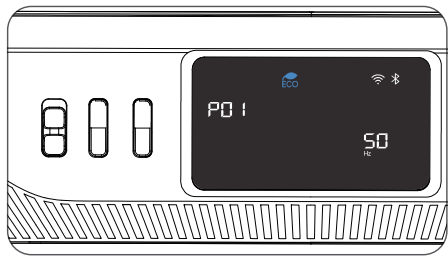
5.1 Settings Mode

**Enter the Mode:** Press and hold the AC power and ECO mode buttons simultaneously for about 2 seconds. The frequency icon flashes.



**Exit the Mode:** Press and hold both the AC power and ECO mode buttons again. If left idle for 1 minute, the Apex 300 automatically exits without saving any changes.

- Adjust settings in Settings Mode.**
- Turn off AC output before setting the frequency.
  - Press the ECO mode button to navigate through the items, and press the AC power button to adjust.



Page Code	Setting
P01	Frequency
P03	Charging Mode
P04	Power Lifting Mode
P05	ECO Mode
P06	Bluetooth
P07	WiFi
P08	Child Lock