User manual

Cubenest PD GaN Adapter 240W S6D0

Package contents:

- 1× PD GaN Adapter 240W
- 1× Power cord (1.5 m)
- 1× Stand for placing the adapter
- 1× USB-C to USB-C cable (1 m, 240 W)
- 1× User manual

1. Device description

Cubenest S6D0 is a universal GaN charger with a total power of **up to 240 W**, equipped with **4x USB-C** and **2x USB-A ports**. With support for PD 3.1 protocol, it allows charging **up to 140 W** via a single USB-C port, which means that, for example, a MacBook Pro (2021 and newer) can be charged to 50% capacity in just 30 minutes. **The LCD display** shows the current charging performance.

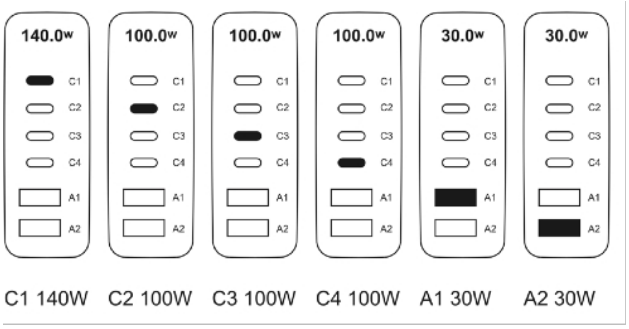
Product Specifications:

- **Protection:** surge, short circuit, thermal and current **protection.**
- **Model**: S6D0
- **Total power**: up to 240 W
- **Input Voltage**: 100-240 VAC
- **Ports**:
  - 4× USB-C
  - 2× USB-A
- **Output** power:
  - USB-C 1 / USB-C 2: up to 140 W (PD 3.1)
  - USB-C 3 / USB-C 4: up to 100 W
  - USB-A 1 / USB-A 2: up to 30 W
- **Supports technology**
  - PD3.1, PD3.0, PD2.0, PPS
  - QC4.0+, QC3.0, QC2.0
  - DCP, FCP, SCP, AFC
  - Apple 2.4, Samsung 2.0
  - BC1.2, PE2.0, PE1.1

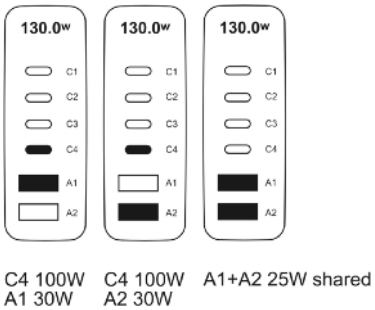
- **Charging multiple devices simultaneously**
  - The adapter allows you to charge up to six devices simultaneously.
  - When multiple devices are connected, the power is divided between the ports.
  - We recommend connecting fewer devices to achieve maximum performance on a particular port.

- **Diagram of the power usage of each device when plugged into the ports**:

1xP



2xP



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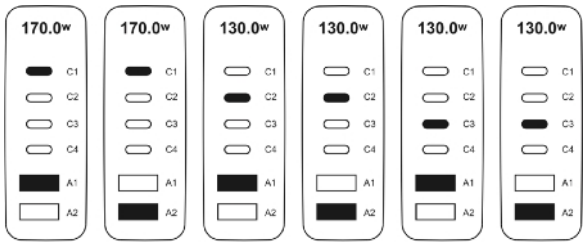
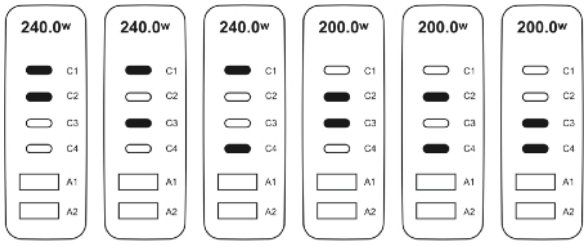


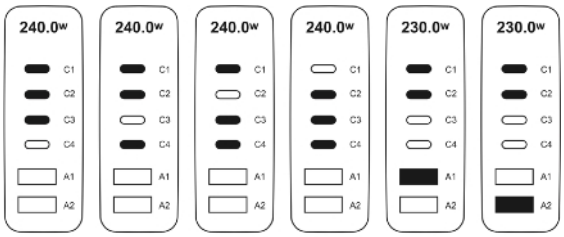
C1 140W A1 30W | C1 140W A2 30W | C2 100W A1 30W | C2 100W A2 30W | C3 100W A1 30W | C3 100W A2 30W

2xP



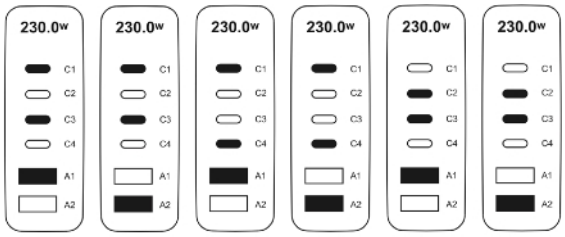
C1 140W C2 100W | C1 140W C3 100W | C1 140W C4 100W | C2 100W C3 100W | C2 100W C4 100W | C3 100W C4 100W

3xP



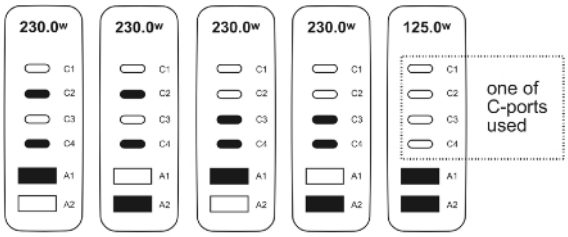
C1 100W C2 95W C3 45W | C1 100W C2 95W C4 45W | C1 100W C3 95W C4 45W | C2 100W C3 95W C4 45W | C1 100W C2 100W A1 30W | C1 100W C2 100W A2 30W

3xP



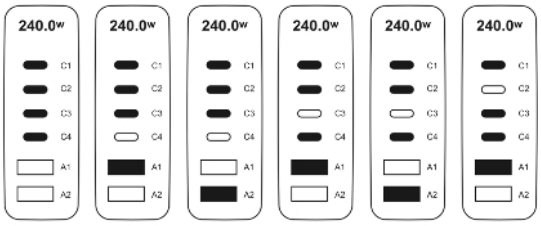
C1 100W C3 100W A1 30W | C1 100W C3 100W A2 30W | C1 100W C4 100W A1 30W | C1 100W C4 100W A2 30W | C2 100W C3 100W A1 30W | C2 100W C3 100W A2 30W

3xP



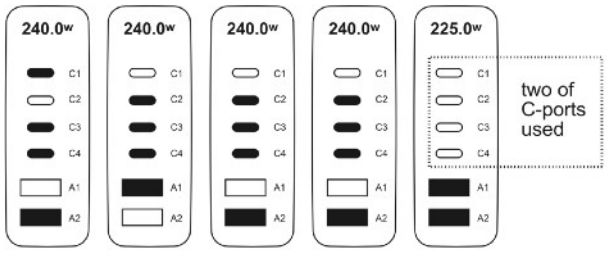
C2 100W C4 100W A1 30W | C2 100W C4 100W A2 30W | C3 100W C4 100W A1 30W | C3 100W C4 100W A2 30W | 1 x C-port 100W A1+A2 25W shared

4xP



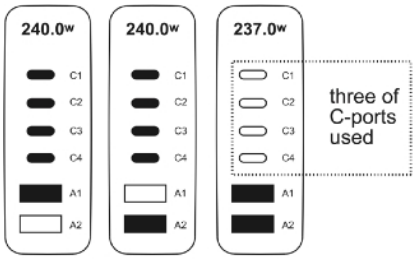
C1 100W C2 65W C3 45W C4 30W | C1 100W C2 65W C3 45W A1 30W | C1 100W C2 65W C3 45W A2 30W | C1 100W C2 65W C4 45W A1 30W | C1 100W C2 65W C4 45W A2 30W | C1 100W C3 65W C4 45W A1 30W

4xP



C1 100W C3 65W C4 45W A2 30W | C2 100W C3 65W C4 45W A2 30W | C2 100W C3 65W C4 45W A2 30W | C2 100W C3 65W C4 45W A2 30W | 2 x C-ports 100W+100W A1+A2 25W shared

5xP



C1 100W C2 67W C3 30W C4 25W A1 18W | C1 100W C2 67W C3 30W C4 25W A2 18W | 3 x C-ports 100W+67W+45W A1+A2 25W shared

6xP

C1 100W C2 45W C3 45W C4 25W A1+A2 25W shared

2. Instructions for use

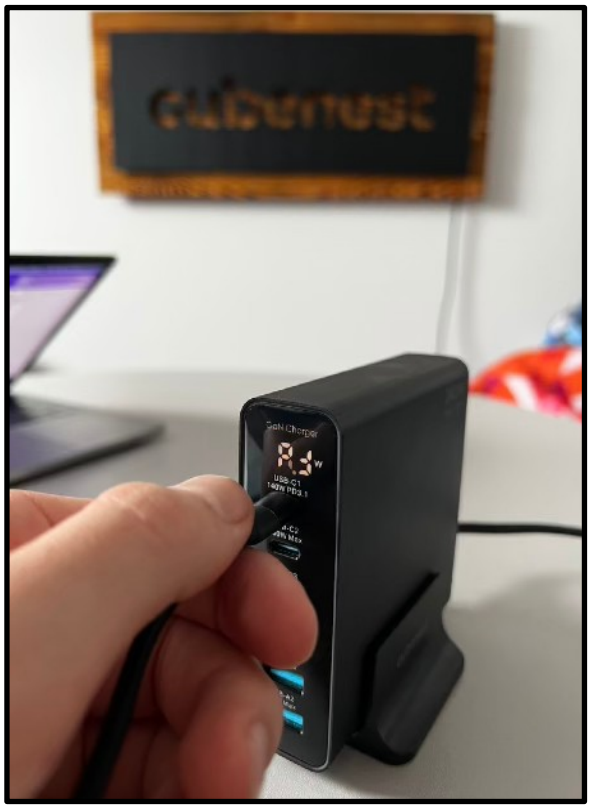
Step 1: Connect the adapter to the power supply

1. Connect the power cord to the adapter.
2. Plug the adapter into an electrical outlet (100-240 VAC).

3. The **LCD display** on the charger will light up when connected to the mains.

Step 2: Connect the device to the adapter

1. Select the appropriate port (USB-C or USB-A) according to your device.



2. Connect the device using a compatible cable.
3. The adapter will automatically detect the connected device and **adjust the** output power. **The LCD display** will show **the current power the charger** is charging your device with.

3. Safety instructions

⚠️ **DO NOT use an** uncertified or damaged USB cable for charging.

⚠️ **Ensure** sufficient **ventilation of** the adapter during operation.

⚠️ **Do not expose** the adapter **to** extreme temperatures, humidity or direct sunlight.

⚠️ **Protect** the adapter from water and other liquids.

⚠️ **Do not use the** adapter if it is damaged or shows signs of malfunction.

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4. Frequently Asked Questions (FAQ):

❓ **What devices can I charge with this adapter?**

✅ The adapter supports charging laptops (MacBook, Dell, HP, Lenovo), tablets, phones (iPhone, Samsung, Xiaomi, etc.), game consoles (Nintendo Switch), headphones, power banks and other devices with USB-C or USB-A connectors.

❓ **Is the adapter compatible with MacBook Pro 16" (M1/M2/M3)?**

✅ Yes, the adapter supports Power Delivery 3.1, allowing you to charge your MacBook Pro 16" with up to 140W of power via USB-C.

❓ **Can I use the adapter abroad?**

✅ Yes, the adapter supports a wide input voltage range of 100-240V, so you can use it anywhere in the world. If you're travelling, all you need is the right adapter for your country's power outlet.

❓ **How do I know if my device supports fast charging?**

✅ Check the specifications of your device. If it supports USB Power Delivery (PD) 3.0 or 3.1, Quick Charge (QC) 4.0+ or another fast charging standard, it will charge at a higher rate.

❓ **Can I charge devices that do not support fast charging with this adapter?**

✅ Yes, the adapter automatically adjusts the output power to the needs of the connected device, so it's safe to charge older or less powerful devices.

❓ **What is the difference between the USB-C and USB-A ports on this adapter?**

✅ USB-C ports support higher power (up to 140W) and fast charging (PD 3.1).
USB-A ports have lower power (max 30W) but are suitable for older devices such as some phones, headphones or power banks.

❓ **What is the maximum output power per port?**

✅ USB-C 1 and USB-C 2: up to 140W (PD 3.1)
USB-C 3 and USB-C 4: up to 100 W
USB-A 1 and USB-A 2: up to 22.5 W

❓ **What is the total output power of the adapter?**

✅ The total power output is 240 W, which is dynamically distributed among the connected devices.

❓ **What is the length of the power cable?**

✅ Included in the package is a 1.5m power cable and a 1m USB-C to USB-C cable with 240W power support.

❓ **What cables should I use for best performance?**

✅ We recommend USB-C cables with 100W or 240W (PD 3.1) support to achieve maximum charging speed.

❓ **What is the difference between S5D0 and S6D0?**

✅ Compared to the S5D0, the Gan S6D0 charger has a maximum power of 240W, which is 100W more than the S5D0, and it also has 1x more USB-C port, meaning it can charge 6 devices simultaneously.

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5. Troubleshooting the most common problems

1. **The charger gets excessively hot**

- **Possible cause**: increased heat output when charging multiple devices at the same time.
- **Solution**: ensure that the charger has enough space around it. Do not use it on a soft surface (e.g. bed, pillow).

2. **The LED light does not illuminate**

- **Possible cause**: the charger is not plugged in correctly or the power cable is damaged.
- **Solution**: make sure the power cord is firmly inserted into the socket and the charger. Try a different socket.

3. **The connected device is not charging**

- **Possible cause**: the cable is incompatible or defective.
- **Solution**: try a different cable. Check that the device supports fast charging.

4. **Charger beeps**

- **Possible cause**: noise from high-frequency circuits at low load.
- **Solution**: if the sound is faint, it is normal. If it is loud or disturbing, contact technical support.

5. **The device is charging slowly**

- **Possible cause**: the port is not delivering maximum power due to load sharing.
- **Solution**: disconnect other devices or use a more powerful port (e.g. USB-C1).

6. **USB port stopped working**

- **Possible cause**: the protection circuit has deactivated the output when overloaded.
- **Solution**: disconnect all devices and wait 1 minute before reconnecting the device. The charger resets automatically.

7. **USB-A port does not charge a modern phone**

- **Possible cause**: some phones require a more modern PD protocol.
- **Solution**: use the USB-C port for modern devices. USB-A is suitable for older devices or accessories.

8. **Ports are unresponsive when multiple devices are connected at the same time**

- **Possible cause**: maximum power of 240 W exceeded.
- **Solution**: disconnect one or more devices and reconnect the priority device to the higher power port (C1/C2).

9. **Charger disconnects while charging**

- **Possible cause**: unstable supply voltage or overheating.
- **Solution**: check the power supply network and ensure cooling.

Technical support

📧 **Email:** complaint@cubenest.eu

📞 **Phone:** +420 704 613 961

Warranty and claims

- This product is covered by a 24-month warranty period.
- In the event of a defect, please complete our claim form - https://www.cubenest.eu/find-out-about/ claim-and-complaint