Spigen PE2007UJ

Spigen 70W Dual USB-C Wall Charger Instruction Manual

Model: PE2007UJ

1. PRODUCT OVERVIEW

The Spigen 70W Dual USB-C Wall Charger (Model PE2007UJ) utilizes advanced Gallium Nitride (GaN II) technology to provide efficient and fast charging for a wide range of devices. Its compact design and dual USB-C ports make it suitable for charging multiple devices simultaneously.

1.1 Package Contents

- 1 x Spigen 70W Dual USB-C Wall Charger
- 1 x USB Cable (Note: Specific cable type may vary or be sold separately as per product details)

1.2 Key Features

- **70W Total Power Delivery:** Provides up to 70W total output across two USB-C ports.
- **GaN II Technology:** Offers a more compact design, higher efficiency, and cooler operation compared to traditional silicon chargers.
- **Intelligent Power Diffusion (IPD):** Dynamically distributes power to connected devices for optimal charging.
- **Quantum Boost:** Automatic device detection for maximum power delivery.
- **Foldable Plug:** Enhances portability and ease of storage.
- **Power Quality Technology:** Minimizes ripple noise for stable power output and extended device lifespan.

1.3 Compatibility

Compatible with a wide range of USB-C powered devices, including:

- Apple devices: MacBook Pro 13"/14"/15", MacBook Air 13", iPad Air Series, iPhone 17/Air/Pro/Pro Max, iPhone 16/Plus/Pro/Pro Max, iPhone 15/Plus/Pro/Pro Max, iPhone 14/Plus/Pro/Pro Max, iPhone 13/Pro Max/Pro/Mini, iPhone 12/Pro/Pro Max/Mini, iPhone 11/Pro/Pro Max, iPhone X/XS/XR/XS Max, iPhone SE, iPhone 8/8 Plus.
- Samsung Galaxy S series: S23, S22, S21, S20 series.
- Google Pixel series: Pixel Fold, 10, 9, 8, 7a, 7, 6, 6 Pro, 5a, 5, 4.
- Other devices: Steam Deck, Dell XPS, and other USB-C laptops.

Note: Does not support Super Fast Charging (Samsung) and OnePlus Warp Charging.

2. SETUP

2.1 Connecting the Charger

1. Unfold the AC prongs from the charger body.
2. Insert the charger into a standard wall outlet.
3. Connect your device's USB-C charging cable to one of the USB-C ports on the charger.
4. Connect the other end of the charging cable to your device.

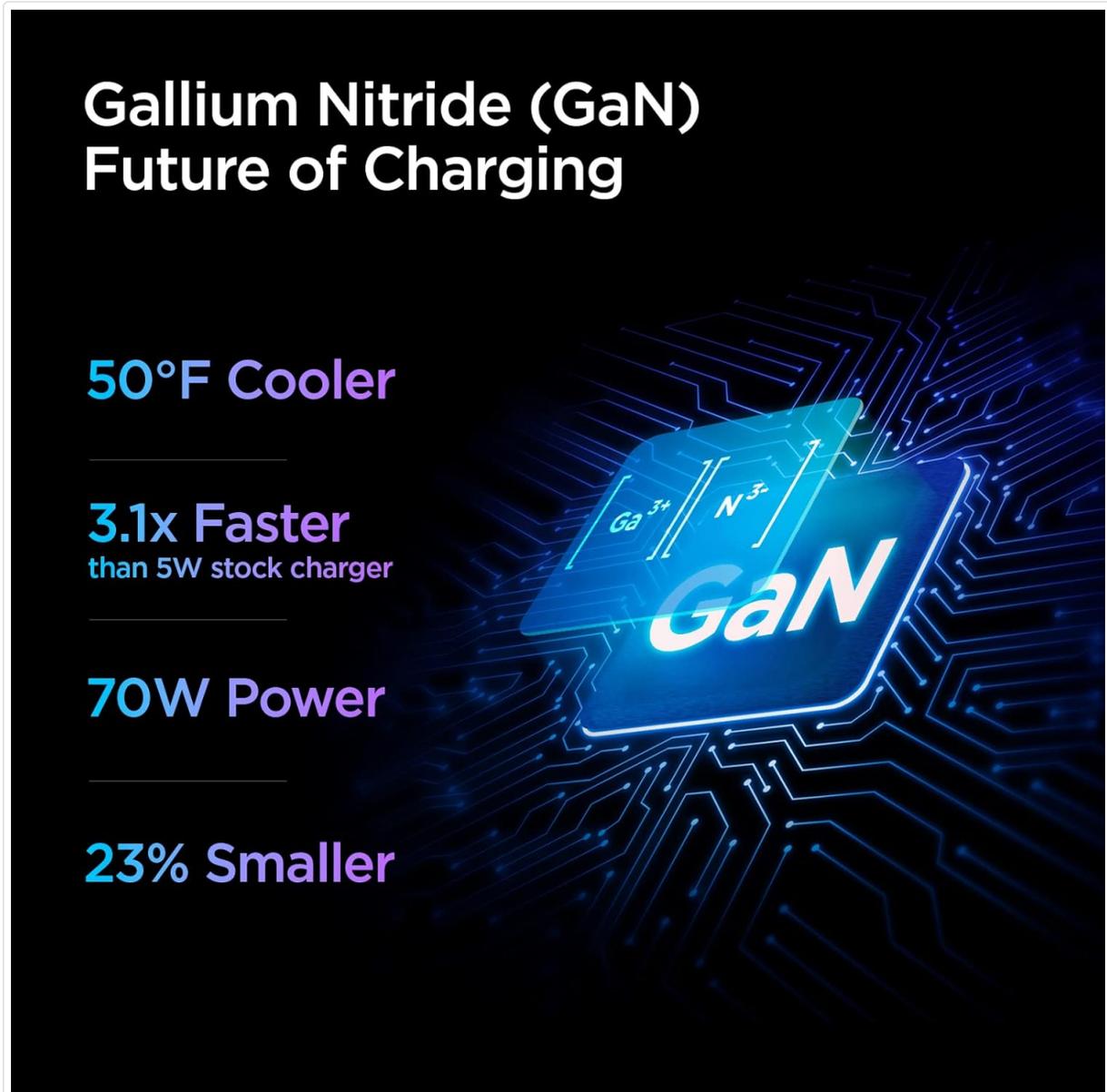The charger will automatically detect your device and begin charging.

Image: The Spigen 70W Dual USB-C Wall Charger with its foldable plug extended, connected to a wall outlet. A USB-C cable is plugged into one port, charging a MacBook Pro, and another USB-C cable is plugged into the second port, charging an iPhone. This illustrates the dual-port charging capability.

3. OPERATING INSTRUCTIONS

3.1 Power Distribution

The charger features Intelligent Power Diffusion (IPD) technology, which optimizes power output based on the connected devices.

Single Port Use

When only one device is connected to either USB-C port, the charger can deliver up to 60W of power. This is ideal for fast-charging laptops like the MacBook Pro/Air or other high-power devices.

Image: A diagram showing the Spigen 70W Dual USB-C Wall Charger plugged into a wall socket. A single USB-C cable is connected to one port, indicating a maximum output of 60W for single-device charging.

Dual Port Use

When two devices are connected simultaneously, the charger intelligently distributes the total 70W output. Typically, this will be 50W for one port and 20W for the other, allowing for simultaneous fast charging of a laptop and a smartphone.

Image: A visual representation of the Spigen 70W Dual USB-C Wall Charger's power distribution. A MacBook Pro is shown receiving 50W, and an iPhone is receiving 20W, totaling 70W when both ports are in use.

3.2 Gallium Nitride (GaN) Technology

This charger incorporates GaN II technology, which allows for smaller, more efficient power components. Benefits include:
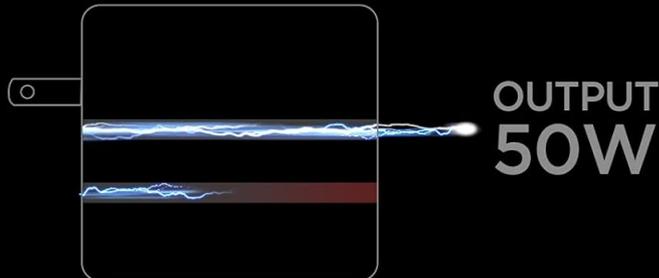
- **Reduced Heat:** Operates cooler than traditional silicon-based chargers.
- **Faster Charging:** Delivers power more efficiently.
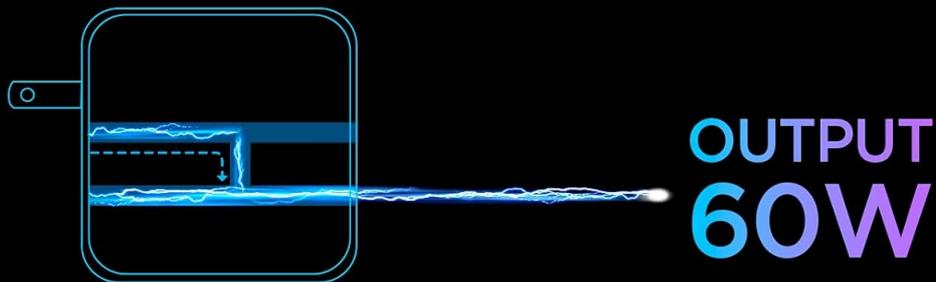- **Compact Size:** Smaller form factor for enhanced portability.

Image: An infographic highlighting the advantages of Gallium Nitride (GaN) technology, stating it's 50°F cooler, 3.1x faster than a 5W stock charger, provides 70W power, and is 23% smaller.
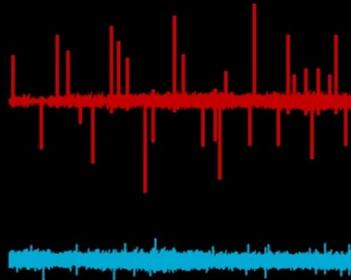
3.3 Power Quality Technology

The charger is designed with Power Quality Technology to minimize ripple noise, ensuring a stable and clean power supply to your devices. This helps protect your devices and prolong their battery lifespan.

Image: A graph comparing voltage stability over time between "Other" chargers (red line, showing high ripple noise) and "ArcStation Pro" (blue line, showing minimal ripple noise). Text explains that high ripple noise can cause heating and damage, while Power Quality Technology minimizes it for stable current.

4. MAINTENANCE

- Keep the charger clean and dry. Avoid exposure to liquids or excessive humidity.
- Do not attempt to disassemble or modify the charger.
- Store the charger in a cool, dry place when not in use.
- Regularly inspect the charger and cables for any signs of damage. Discontinue use if damage is found.

5. TROUBLESHOOTING

5.1 Device Not Charging

- **Check Power Connection:** Ensure the charger is securely plugged into a working wall outlet.
- **Check Cable Connection:** Verify that the USB-C cable is firmly connected to both the charger and your device.
- **Try a Different Cable:** Test with another known-good USB-C cable to rule out a faulty cable.

- **Try a Different Port:** If using dual ports, try connecting to the other port.
- **Restart Device:** Sometimes restarting your device can resolve charging issues.

5.2 Slow Charging

- **Verify Cable Compatibility:** Ensure you are using a high-quality USB-C cable that supports fast charging and the required wattage.
- **Power Distribution:** If two devices are connected, the power is distributed. Disconnect one device to see if the charging speed improves for the other.
- **Device Requirements:** Confirm your device supports the fast charging protocols provided by this charger.
- **Background Apps:** Close unnecessary background applications on your device that might be consuming power.

5.3 Charger Overheating

- While the charger is designed to operate cooler due to GaN technology, some warmth during high-power charging is normal.
- If the charger becomes excessively hot to touch, disconnect it immediately and allow it to cool down.
- Ensure adequate ventilation around the charger and avoid covering it.
- If overheating persists, contact customer support.

6. SPECIFICATIONS

Feature	Detail
Model Number	PE2007UJ
Total Wattage	70W
USB Ports	2 x USB Type-C
Single Port Output	Up to 60W
Dual Port Output	50W + 20W (Intelligent Power Diffusion)
Input Voltage	240 Volts (Standard AC input)
Dimensions	2.44 x 2.44 x 1.22 inches
Item Weight	5.1 ounces
Special Features	Fast Charging, Lightweight Design, Retractable Plug, Short Circuit Protection, Travel-friendly
Color	White

7. IMPORTANT SAFETY INFORMATION

- Do not expose the charger to water or moisture.

- Avoid extreme temperatures.

- Keep out of reach of children.

- Do not use if the charger or cable is damaged.

- Unplug the charger during lightning storms or when unused for long periods.

8. Warranty and Support

For warranty information and customer support, please refer to the official Spigen website or contact their customer service directly.

Spigen is committed to user safety and product quality, adhering to a 15-point safety standard and rigorous testing.

For further assistance, visit: Spigen Official Store on Amazon

9. Product Video

Your browser does not support the video tag.

Video: An official product video showcasing the Spigen ArcStation Pro 70W Dual Port GaN Charger, demonstrating its features, compact design, and dual-device charging capabilities.