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## Gens ace SQS-D300PLUS-USW

# Gens ace iMars D300 Plus Smart Charger User Manual

Model: SQS-D300PLUS-USW | Brand: Gens ace

## 1. INTRODUCTION

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NEW VERSION

# iMars D300 Plus



Image: The Gens ace iMars D300 Plus smart charger, showcasing its design.

The Gens ace iMars D300 Plus is an advanced dual-channel smart charger designed for various battery chemistries, including LiPo, Li-ion, LIHV, LiFe, NiMH, and NiCd. This charger features integrated Bluetooth connectivity, allowing users to monitor and control charging processes via a dedicated mobile application. It incorporates the G-Tech system for automatic battery parameter detection, simplifying operation for compatible batteries. This manual provides essential information for the safe and efficient use of your iMars D300 Plus charger.

Built-in power supply

# Compact and light comfortable travel



Image: The compact and lightweight design of the iMars D300 Plus, suitable for travel.

## 2. KEY FEATURES

- **Dual-Channel Operation:** Capable of charging two batteries simultaneously with independent settings.
- **Bluetooth Connectivity:** Remote control and real-time monitoring via the Gens Ace mobile application.
- **G-Tech System:** Automatic parameter detection for G-Tech batteries, enabling "Plug and Charge" functionality without manual setup.
- **Comprehensive Protection:** Features 8-level protection including overheating, current limiting, over voltage, wire break, reverse polarity, short circuit, cell count mismatch alert, and abnormal voltage alert.
- **Data Logging:** Records charging history and battery information for detailed analysis.
- **Versatile Battery Support:** Compatible with LiPo/Li-ion/LiHV/LiFe (1-6S) and NiMH/Cd (1-16S) batteries.
- **Compact Design:** Built-in power supply for portability and ease of use.

## 3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

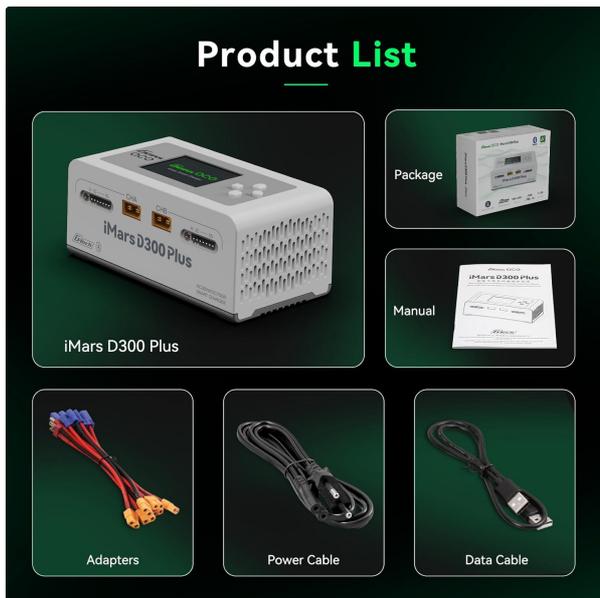


Image: Gens ace iMars D300 Plus charger and its included accessories.

- Gens ace iMars D300 Plus Lipo Charger
- AC Input Cable
- XT60-T Adapter (x2)
- XT60-EC5 Adapter (x2)
- XT60-EC3 Adapter (x2)
- User Manual

## 4. SETUP AND CONNECTION

1. **Power Connection:** Connect the AC input cable to the charger's AC input port and then to a suitable power outlet (AC 100-240V). Alternatively, for DC input, connect a DC power source (DC 7-30V) to the DC input port.
2. **Battery Connection:**
  - Identify the main charging port (CHA or CHB) and the balance port for your battery.
  - For G-Tech batteries, simply connect the main power lead and the balance lead. The charger will automatically detect battery parameters.
  - For non-G-Tech batteries, connect the main power lead and the balance lead. You will need to manually set the battery type, cell count, and charging parameters on the charger's interface or via the app.
  - Ensure all connections are secure. The XT60 ports may be tight initially; gently wiggle the connectors to ensure proper seating without excessive force on the cables.
3. **Initial Power On:** Once connected, the charger's display will activate.

All automatic. No setup. Just easy.

# Plug and Play



**Note:** Supports both G-Tech smart batteries and non-G-Tech batteries — manual setup is required for the latter.

Image: The iMars D300 Plus charger showing connected batteries, highlighting its "Plug and Play" feature for G-Tech batteries.

## 5. OPERATING INSTRUCTIONS

### 5.1 Basic Charging (On-Device)

1. After connecting the battery, the charger will display detected parameters (for G-Tech) or prompt for manual input (for non-G-Tech).
2. Use the navigation buttons on the charger to select the desired charging mode (e.g., Charge, Balance Charge, Storage, Discharge).
3. Adjust parameters such as battery type, cell count, charge current, and cutoff voltage as needed.
4. Confirm settings and start the charging process. The display will show real-time charging status, including voltage, current, and remaining time.

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Video: A short preview demonstrating the unboxing and basic connection of the Gens ace iMars D300 Plus charger, showing the display and cable connections.

## 5.2 Using the Gens Ace Mobile Application

The iMars D300 Plus can be controlled and monitored via the Gens Ace mobile application, available for both iOS and Android devices. Ensure Bluetooth is enabled on your mobile device.

1. **Download and Install:** Search for "Gens Ace" in your device's app store and install the application.
2. **Pairing:** Open the app and follow the on-screen instructions to pair with your iMars D300 Plus charger via Bluetooth.
3. **Real-time Monitoring:** The app provides a detailed overview of the charging process for both channels, including current, voltage, state of charge (SOC), temperature, and remaining charging time.
4. **Parameter Adjustment:** Easily adjust charging parameters, select task types (Charge, Discharge, Storage), and view cell data directly from your phone.
5. **History Records:** Access historical charging data and battery information, including total charge cycles, battery capacity, and recommended settings.

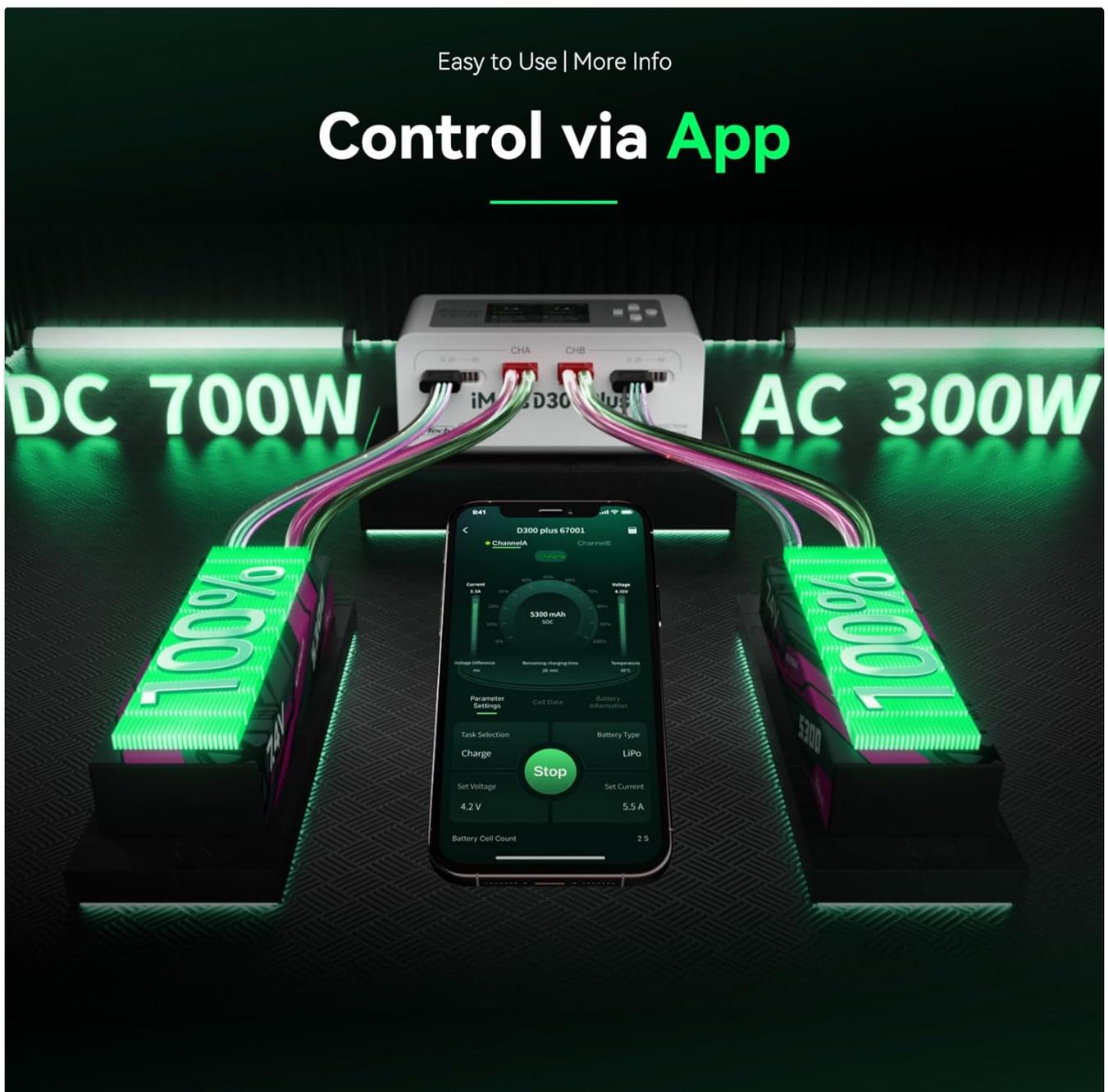
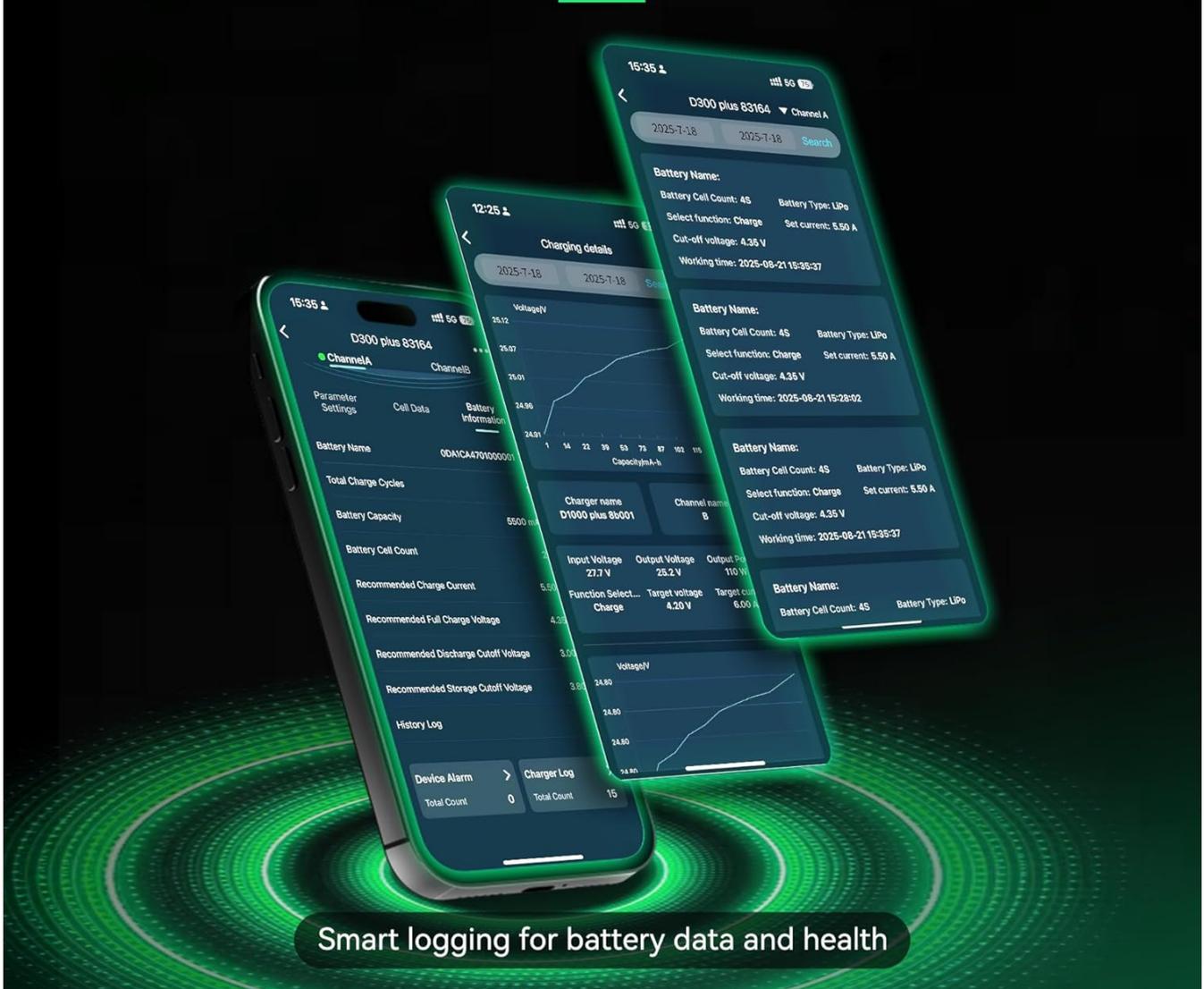


Image: The Gens ace mobile application interface, showing real-time charging data and control options for the iMars D300 Plus.

G-Tech, Cares for Your Battery More

# Intelligent Battery Manager



Smart logging for battery data and health

Image: Detailed battery management features within the Gens ace app, including history logs and battery health information.

Your browser does not support the video tag.

Video: A short preview demonstrating the Gens ace iMars D300 Plus charger's app control and monitoring capabilities, showing battery charging status and data records.

## 6. SAFETY INFORMATION AND PROTECTION FEATURES

The Gens ace iMars D300 Plus charger is equipped with multiple safety features to ensure secure operation. Always adhere to general battery safety guidelines when charging.

# 8-Level Protection

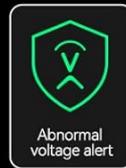
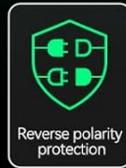


Image: Visual representation of the 8-level protection system integrated into the iMars D300 Plus charger.

- **Overheating Protection:** Prevents damage from excessive temperatures.
- **Current Limiting Protection:** Regulates current to prevent overcurrent conditions.
- **Over Voltage Protection:** Safeguards against voltage surges.
- **Wire Break Protection:** Detects and alerts for disconnected wires.
- **Reverse Polarity Protection:** Prevents damage from incorrect battery connection.
- **Short Circuit Protection:** Automatically shuts down in case of a short circuit.
- **Cell Count Mismatch Alert:** Warns if the detected cell count does not match the battery.
- **Abnormal Voltage Alert:** Notifies users of unusual voltage readings.

## 7. SPECIFICATIONS

# Product Specifications



Item	Specification
Input Voltage	AC 100-240V; DC 7-30V
Output Voltage	DC 1~30V
Max. Input Current	DC 34A
Max. Discharging Power	15W × 2
Maximum Charging Power	AC 300W; DC 350W × 2
Charge Current	0.1~16A × 2
Discharge Current	0.1~3A × 2
Cell Balancing	1~6S
USB Output	5V / 2.4A
Display Type	2.4 inch IPS LCD Display
Supported Battery Chemistry	LiPo / LiHV / LiFe 1~6S; NiMH 1~16S
Dimensions	145 × 76 × 62 mm
Product Net Weight	530g

Image: Detailed product specifications including input/output voltage, power, and supported battery types.

Item	Specification
Input Voltage	AC 100-240V, DC 7-30V
Output Voltage	DC 1-30V
Max. Input Current	DC 34A
Max. Discharging Power	15W x 2 (Main port 6W x 2, Balance port 9W x 2)
Maximum Charging Power	AC 300W x 2, DC 350W x 2
Charge Current	0.1-16A x 2
Discharge Current	0.1-3A x 2
Cell Balancing	1-6S
USB Output	5V / 2.4A

Item	Specification
Display Type	2.4 inch IPS LCD Display
Supported Battery Chemistries	LiPo/Li-ion/LiHV/LiFe 1-6S; NiMH/Cd 1-16S
Dimensions	145 x 76 x 62 mm (5.7 x 3 x 2.4 inches)
Product Net Weight	530g (1.17 lbs)

## 8. MAINTENANCE

- Keep the charger clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Store the charger in a cool, dry place away from direct sunlight and moisture.
- Regularly inspect cables and connectors for any signs of wear or damage. Replace damaged components immediately.
- Ensure adequate ventilation around the charger during operation to prevent overheating.

## 9. TROUBLESHOOTING

- **Charger not powering on:** Ensure the AC input cable is securely connected to both the charger and the power outlet. Check the power source.
- **Battery not detected or charging:** Verify that the main power lead and balance lead are correctly and securely connected to the charger and battery. For non-G-Tech batteries, confirm that parameters are manually set correctly.
- **App connectivity issues:** Ensure Bluetooth is enabled on your mobile device and the charger. Try restarting both the app and the charger. Check for app updates.
- **Tight XT60 ports:** The XT60 ports can be tight initially. Ensure a firm, straight connection. Avoid pulling on the cables directly; grasp the connector housing.
- **Error messages:** Refer to the charger's display or the app for specific error codes or messages. Consult the full user manual for detailed explanations of error codes.

## 10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Gens ace customer support through their official website or the contact information provided in your product packaging. Keep your purchase receipt as proof of purchase for warranty claims.