



High-Precision Electroplated Copper Components for New Energy Applications

Our Product Introduction

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Basic Information

- Minimum Order Quantity: 1000
- Price: \$ +1~10+Pcs
- Delivery Time: 15-20
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 3000+pcs+Month



Product Specification

- Material: T2-Y2 Copper
- Specifications: L=95mm;W=70mm;T=4.0MM
- Surface Treatment: Nickel Plating
- Production Processes: Cutting, Surface Pressing CNC、 Rivets, Nickel Plating



More Images



Product Description

1. Product Overview

Plated copper new energy hardware components are made from high-conductivity copper materials that undergo precision processing and plating treatment to enhance corrosion resistance, electrical conductivity, and mechanical strength. These components are widely used in **new energy vehicles (NEVs), photovoltaic power generation, energy storage systems, smart grids, and high-end electronic devices**, ensuring stable and long-lasting electrical connections.

2. Features & Advantages

Excellent Electrical Conductivity

Made from high-purity copper (such as T2, C1100, C2680) with conductivity exceeding 95%.

Surface treatment options like silver plating, nickel plating, and gold plating reduce contact resistance and improve power transmission efficiency.

Superior Corrosion Resistance

The plated layer acts as an additional protective barrier, effectively preventing oxidation and chemical corrosion.

Suitable for high-humidity, high-salt fog, and acidic or alkaline environments, such as offshore wind power and outdoor photovoltaic applications.

Enhanced Mechanical Strength

Manufactured using precision stamping, CNC machining, and laser cutting to ensure structural strength and accuracy.

High wear resistance and vibration resistance, ensuring long-term durability in demanding applications.

Eco-friendly Plating Process

Uses environmentally friendly plating technology, compliant with **RoHS, REACH**, and other international environmental regulations.

Lead-free and cadmium-free, making it suitable for the global new energy market and sustainable development.

High-Temperature Stability

Suitable for high-temperature environments in NEV battery systems, charging stations, and inverters.

The plated layer offers excellent heat resistance, preventing oxidation and melting, thus enhancing connection safety.

3. Applications

These components are widely used in various core systems of the new energy industry, including but not limited to:

New Energy Vehicles (EV/HEV)

Battery System: Busbars, copper connectors, high-voltage terminals

Charging System: Fast-charging plugs, Battery Management System (BMS) conductive parts

Motor & Control System: Inverter busbars, wiring terminals, electrical control module conductors

Photovoltaic Power & Energy Storage Systems

Photovoltaic Module Connectors: Solar junction box terminals, photovoltaic inverter electrode connectors

Energy Storage Systems: Conductive busbars, electrode contact sheets

Smart Grids & Power Equipment

Power Transmission & Distribution Systems: Conductive connectors in high-voltage switchgear

Substation Equipment: Busbars, terminal connectors

5G Communication & High-End Electronics

Base Station Connectors: RF connectors, high-frequency signal terminals

Precision Electronic Components: High-performance sensor terminals, smart device power connectors

4. Customization Options

Category	Available Options
Base Material	T2, C1100, C2680 high-conductivity copper
Surface Treatment	Silver plating, nickel plating, gold plating, tin plating, palladium-nickel alloy plating
Processing Technology	CNC machining, stamping, laser cutting, bending
Product Size	Customized according to customer requirements
Compliance Standards	RoHS, REACH, ISO9001, IATF16949 (automotive industry)

We offer **OEM/ODM customization** and can design and manufacture high-performance new energy hardware components according to your specific requirements.

5. Contact Us

If you are interested in our products or have customization needs, please feel free to contact us. We are committed to providing professional solutions and high-quality products.



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