

CPST Series

Storage system connector



High Voltage
and High Current



Safety
Mechanisms



Environmental
Protection



Quick
Installation



120A

250A

350A



Feature

Energy storage system connectors are essential components designed to seamlessly connect battery modules, power conversion systems (PCS), and the power grid. They serve as the backbone of efficient energy transmission, ensuring stable and continuous power flow across the entire system. Engineered for high-performance applications, these connectors offer superior current carrying capacity, enhanced safety protection, and excellent thermal management. With reliable locking mechanisms and durable construction, they deliver secure connections, reduced power loss, and long-term operational stability, making them ideal for next-generation energy storage solutions.

Material

The housing is made of high-performance PA66 material, offering excellent mechanical strength, heat resistance, and durability. Available in standard color options of black and orange for easy identification and application.

The contact terminals are manufactured using high-quality T2Y pure copper with silver plating, ensuring superior electrical conductivity, low contact resistance, and enhanced corrosion resistance for long-term reliability.

Electrical

1. Rated Current:
70A/100A/120A/200A/250A/350A
2. Rated Voltage: 1000V/1500V DC
3. Insulation Resistance: >500MΩ
4. Dielectric Strength: 3000V AC
5. Insertion Force: ≤75N
6. Insertion Cycles: 500 times
7. Protection Rating: IP67\UL94 V-0
8. Compatible Wire Diameter: 10mm², 16mm², 25mm²
9. Operating Temperature: -40~125°C

Since 1990

Proactive
Innovation
Efficiency

 **CviLux Group**
www.cvilux.com

9F., No.9, Ln. 3, Sec. 1, Zhongzheng E. Rd., Tamsui Dist., New Taipei City
TEL: +886 2 2620-1000



Functions and Specifications



High Voltage and High Current:

Rated voltage typically reaches 1000V to 1500V DC, and current range covers 60A to over 500A.



Safety Mechanisms:

Equipped with reverse polarity protection (prevents reversed polarity), electric shock protection (prevents human contact with conductors even when not connected), and mechanical coding.



Environmental Protection:

Typically has IP65, IP67, or even IP69K waterproof and dustproof ratings, and can operate in extreme temperatures from -40°C to +125°C.



Quick Installation:

Mostly employ quick-locking mechanisms, supporting one-handed operation, improving on-site construction efficiency and reducing the risk of mis-insertion.

Product Advantages

• Leading-edge connectivity technology:

Voltage up to 1500V

• Flexible application:

Can be connected to the front or back of the battery module

• Quick installation:

Pluggable interface significantly reduces wiring work

• Safe installation and maintenance:

Provides comprehensive protection against electric shock even when not plugged in

• Long-lasting connection:

Provides clear feedback upon plugging in, achieving the highest level of safety

Application Field

• Energy Storage Cabinet

Power connection for large-scale energy storage cabinets, enabling stable current transmission between battery modules and power systems.

• Home Energy Storage Systems

Reliable power connectivity for residential energy storage solutions, supporting safe and efficient energy management.

• Uninterruptible Power Supply (UPS) Systems

Ensures continuous and stable power connections for UPS equipment used in data centers, telecom infrastructure, and critical power backup systems.



Since 1990

Proactive
Innovation
Efficiency

 CviLux Group
www.cvilux.com

9F., No.9, Ln. 3, Sec. 1, Zhongzheng E. Rd., Tamsui Dist., New Taipei City
TEL: +886 2 2620-1000

