

SK-TC CU-AL Conversion Connector



Product Introduction



Secure Connection, Superior Electrical Performance

- Solid-state Cu-Al welding ensures molecular bonding, preventing breakage.
- Ultra-low contact resistance reduces power loss, enhancing efficiency.



Stable Performance in Extreme Environments

- Resistant to high temperatures, cold, and humidity, perfect for harsh conditions.
- Certified for 25 years of reliable operation.



Longer Lifespan with Advanced Anti-Corrosion Coating

- Nano-level coating resists salt, oxidation, and UV exposure.
- Prevents corrosion and aging, extending service life.



Lightweight Design for Efficient Installation

- Aluminum alloy reduces weight by 65%, easing support system pressure.
- Compact structure saves space for dense wiring layouts.



Quick Installation, Compatible with Standard Systems

- Tool-free installation in under 1 minute.
- Fully compatible with MC4 and other industry connectors.



Eco-Friendly Production, Lower Lifecycle Cost

- Lower cost, higher efficiency, and reduced TCO.
- Energy-efficient production with high recyclability.

Technical Specifications

Operating Temperature Range	-40°C~+85°C
Maximum Temperature	120°C
Protection Rating	IP65/IP68 (1m,1h)
Protection Rating (Unmated)	IP 2X
Rated Voltage	1500V DC
Rated Current (at 85°C)	46A 4/6mm ² 55A 6/10mm ² 70A 10/16mm ²
Rated Pulse Voltage	16kV
Contact Resistance	≤0.3mΩ
Flammability Rating	UL94V-0
Overvoltage Category	CAT III
Pollution Degree	2
Insulation Material	PA66
Contact Material	Copper-Aluminum Alloy, Tin-Plated
Connection Method	Crimping
Certification Standards	2 PfG 2915/07.23
Certification	TÜV Rheinland