



PHOTOVOLTAIC BALANCE SYSTEM APPLICATION SOLUTIONS

Solar is becoming increasingly more feasible and competitive as an alternative energy source. TE Connectivity (TE) can assist you in solving your connectivity challenges every step of the way. TE's know-how is recognized in the photovoltaic power generation and solar energy industry, in cross-industry innovation and extensive connection solutions. Furthermore, TE is establishing smart connections between solar panel and power grid, and are driving the future development of solar energy.

TE offer innovative, abundant and high quality products to meet your individual needs, including SOLARLOK connector system, cables and relay products. Please contact TE professional team and let us help you fulfill the design challenge.

SOLARLOK PV4-PM connectors [1971919-1 \(male\)](#) / [1971920-1 \(female\)](#)

PV4-PM connectors are widely used in photovoltaic inverter and micro inverter, ensuring safe, reliable and convenient high-quality solar connection solutions.



- Low contact resistance for lower power consumption
- IP68 protection
- Reliable interworking

Rated current: UL20A , TUV 35A (4.0mm²)
 Rated voltage: TUV1000V / TUV1500V (pending)
 UL1000V / UL1500V (pending)
 Contact resistance: 0.35mΩ

SOLARLOK PV4-S connectors [2270024-1 \(male\)](#) / [2270025-1 \(female\)](#)

PV4-S, an updated version of PV4 connector, is mainly used in solar cell panels and photovoltaic inverters. Complying with IP68 protection ensures excellent waterproof protection. The PV-S connector ensures the lowest resistance while reducing the cost of power.



- Excellent waterproofing
- Dustproof and acid-proof
- More than 3 times of IEC aging tests
- Threaded cable connection ensures safety

Rated current: UL15A/TUV25A-2.5MM² Rated voltage: 1000V/1500V(UL)
 UL20A/TUV35A-4.0MM² 1000V/1500V(TUV)
 UL30A/TUV40A-6.0MM² Contact resistance: 0.35mΩ

Photovoltaic cables [1983821-2 \(1000V\)](#) / [2270056-1 \(1500V\)](#) / [1983889-1 \(1000V\)](#)

TE photovoltaic cables can withstand the typical rugged environment of the photovoltaic devices; compared to the traditional cable, it is more flexible and Eco-friendly; with an expected life-time of more than 25 years, These cables provide flexible halogen-free double-wall cables. Certification standards include TUV1169/TUV1990/EN50618/UL4703.



- Voltage of up to 1500/2000VDC
- Operating temperature of -40°C to105°C
- Ensure a robust solution with high/low temperature resistant, inflammable, anti-abrasion, UV protected materials
- Robust, efficient resistance to water, grease and chemicals
- Flexible and easy to strip for easy installation

Potter & Brumfield T9S series relay [2027395-1](#) / [2027395-3](#)

The Potter & Brumfield T9S Power PCB relay with 1.8mm contact gap is primarily designed for solar applications. The extended contact gap of this relay provides better isolation and allows for usage in higher elevation environments.



- Switching current: up to 35 A
- Rated voltage: up to 277 VAC
- Contact spacing: 1.5mm / 1.8mm
- Low temperature rise, max. operating temperature of up to 85°C
- UL/VDE lab validated
- Provide an ideal solution for disconnect switch applications (safety)
- Enable high current switching (8kW solar inverters)
- Achieve better isolation with extended contact gap (1.8 mm)

EV200 high voltage DC contactors [2822745-1](#) / [2291663-1](#)

EV200 is a high voltage DC contactor widely used in BMS, charging piles, solar inverters and energy storage systems.



- Coil input is energy conservation, capable of inputting any value between 9VDC to 36VDC
- Continuous loaded current: up to 500A@85°C
- Switching voltage: up to 1800VDC
- Auxiliary contact monitoring available
- Ultra-small footprint, ultra-light weight and ultra-high cost efficiency

TE.com

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USA: +1 (800) 522-6752

Canada: +1 (905) 475-6222

Mexico: +52 (0) 55-1106-0800

Latin/S. America: +54 (0) 11-4733-2200

Germany: +49 (0) 6251-133-1999

UK: +44 (0) 800-267666

France: +33 (0) 1-3420-8686

The Netherlands: +31 (0) 73-6246-999

China: +86 (0) 400-820-6015

