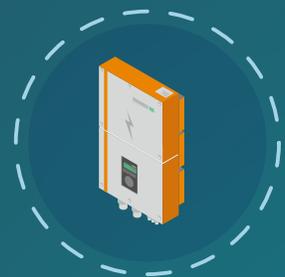


Battery Energy Storage System



Solar Inverter

POWERING YOUR HOME WITH SUSTAINABLE ENERGY

Product Solutions for Solar Inverter and Battery Energy Storage System (BESS)

THE ENERGY YOU NEED, WHEN YOU NEED IT

EMPOWERING THE FUTURE WITH
RELIABLE SOLUTIONS



Solar Inverter



Battery Energy
Storage System (BESS)

YOUR HOME ENERGY EFFICIENCY NEEDS, AND MORE.

As governments invest in clean energy and power industries focus on renewable sources, the demand for solar power increases. With the growth in solar comes a need for robust systems that deliver increased power and efficiency. Engineers require cost-effective and reliable connections that are durable and safe in any environment and can be installed quickly, easily, and accurately. TE Connectivity (TE) is a one-stop shop to meet all your needs across back-up energy storage and solar inverters to keep your home efficient and running smoothly.



CONNECT WITH US

Clean energy is a journey, not a destination. Need help with energy efficient home solutions? Our team of experts are here to help you find the right connectivity solution.

[CONTACT A SPECIALIST ▶](#)

HARNESS THE HEAT

TRUST THE POWER WITHIN

Central solar inverters convert DC power from solar panels to AC power that can be used by homes or businesses or can be connected to the grid. To maximize efficiency and improve reliability, manufacturers are beginning to seek innovations that cut costs, create smart grid features, and standardize monitoring and control interfaces. TE provides designers with high-quality and reliable components that save space without sacrificing power, including off-board power connectors, terminals and splices.

String solar inverters are continually evolving - newer systems have advanced features that are compatible with smart grids. In addition, string inverters are being enhanced with sensors and monitoring tools for use as energy management centers.



SOLAR INVERTER BENEFITS



Cost Savings



Environmentally Friendly



Increase Home Value

Design Challenges	Connectivity Solution	The TE Solution
<p>Size & Capacity</p>	<p>Miniaturization - Compact centerline and smaller construction size</p>	<ul style="list-style-type: none"> • Economy Power 2.5 Connectors • Micro MATE-N-LOK Connectors
<p>Temperature Extremes</p>	<p>Protection - Housing and contact materials designed for extreme temperatures</p>	<ul style="list-style-type: none"> • FASTON Terminals
<p>Environmental Expose</p>	<p>Sealing- Ingress protection (IP) rating for water, dust, and debris in harsh environments</p>	<ul style="list-style-type: none"> • 2.5mm Sealed Signal Double Lock Connector
<p>Safety & Compatibility</p>	<p>Safety - Flame retardant materials, ergonomic design, and insulation protection</p>	<ul style="list-style-type: none"> • Economy Power 2.5 Connectors • 2.5mm Sealed Signal Double Lock Connectors

SOLAR INVERTER



- 1 AC Output connection
- 2 DC/DC & DC/AC Inverter
- 3 DC input & data connection
- 4 Control & Display (HMI)

CONNECTOR SOLUTIONS



[Economy Power 2.5 Connectors](#)

2



[Micro MATE-N -LOK Connectors](#)

2



[2.5mm Signal Double Lock Connectors](#)

2



[VAL-U-LOK PLUS Connectors](#)

2



[2.0mm Signal GRACE INERTIA Connectors](#)

2



[FPC Connectors](#)

2 4



[ERNI SMC Connectors](#)

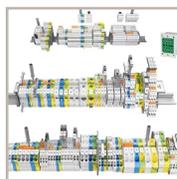
4

TERMINAL & SPLICES



[FASTON Terminals](#)

2 3



[ENTRELEC Terminal Blocks](#)

1



[Pre-Insulated Diamond Grip Terminal and Splices](#)

1 2 3



[ENTRELEC DBL Power Distribution Blocks](#)

2

RELAY



[T9S Power Relay](#)

2

New product

UNLEASH THE POWER OF EFFICIENCY: YOUR HOME, OUR SOLUTIONS

A complete energy storage system plays a crucial role in the success of renewable energy by balancing renewable energy supplies and electricity demands. As batteries are expected to complete more duty cycles, last longer, and hold more power, manufacturers will need to work with new thermal management technologies. Battery energy storage systems are considerably more advanced than the batteries you keep in your kitchen drawer or insert in your children’s toys. Intelligent battery software uses algorithms to coordinate energy production and computerized control systems are used to decide when to store energy or to release it to the grid. Energy is released from the battery storage system during times of peak demand, keeping costs down and electricity flowing. To support next-generation battery systems, TE offers a broad portfolio of power and signal connectors, relays and terminal solutions that power up and keep going.

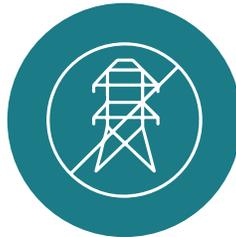
HASSLE-FREE IN THE EVENT OF A POWER OUTAGE.



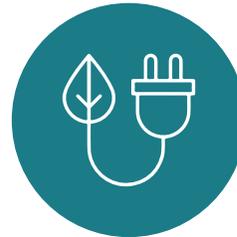
BATTERY ENERGY STORAGE SYSTEM (BESS) BENEFITS



Cost Savings



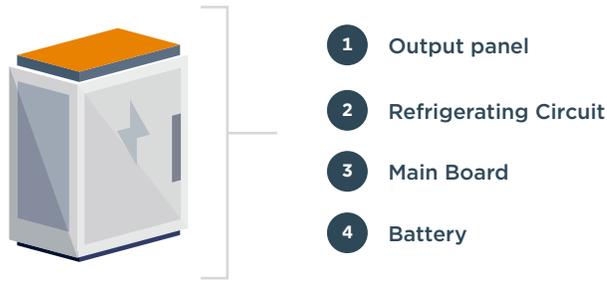
Off-grid
Independence



Green Energy

Design Challenges	Connectivity Solution	The TE Solution
 <p>Size & Capacity</p>	 <p>Miniaturization - Compact centerline and smaller construction size</p>	<ul style="list-style-type: none"> • Mini-Universal MATE-N-LOK Connectors • 2.0mm Signal GRACE INERTIA Connector
 <p>System Integration</p>	 <p>Reliability - High power capabilities, locking mechanisms and vibration resistance</p>	<ul style="list-style-type: none"> • Universal MATE-N-LOK Connectors • FASTON Terminals
 <p>Thermal Management</p>	 <p>Protection - Housing and contact materials designed for extreme temperatures</p>	<ul style="list-style-type: none"> • FASTON Terminals
 <p>Safety & Compatibility</p>	 <p>Safety - Flame retardant materials, ergonomic design, and insulation protection</p>	<ul style="list-style-type: none"> • Economy Power 2.5 Connectors • Universal MATE-N-LOK Connectors • 2.0mm Signal GRACE INERTIA Connectors

BATTERY ENERGY STORAGE SYSTEM (BESS)

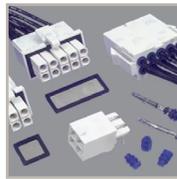


CONNECTOR SOLUTIONS



[Economy Power 2.5 Connectors](#)

1 2 3 4



[Mini-Universal MATE-N-LOK Connectors](#)

1



[Universal MATE-N-LOK Connectors with TPA](#)

1



[2.0mm Signal GRACE INERTIA Connectors](#)

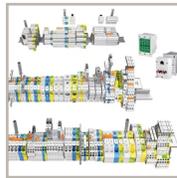
3

TERMINAL & SPLICES



[Pre-Insulated Diamond Grip Terminal and Splices](#)

1 3



[ENTRELEC Terminal Blocks](#)

1



[FASTON Terminals](#)

2



[Ring terminals & Spade Lugs](#)

3



[Dynamic 3200 Series](#)

1

HEAT SHRINK TUBING



[Single Wall Heat Shrink Tubing \(EVSW\)](#)

4

CONTACTOR SOLUTION



[ECP Contactor](#)

3

New product

te.com

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