

Renewable Energy Product Reference Guide

Molex offers a wide range of connectivity solutions for renewable energy applications including terminals, terminal blocks and connectors designed for long-term reliability with high-voltage applications in harsh environments.

Sealed Industrial Connectors

MX150L
Connectors



CONFIGURATION	MAX. VOLTAGE*	MAX. CURRENT*	WIRE SIZE	VALIDATION	FEATURES
Wire-to-Board Wire-to-Wire Wire-to-Panel	600V	40.0A	22 to 8 AWG, 0.34 to 10.00mm ²	IP67	<ul style="list-style-type: none"> • 2 to 16 circuits • Pre-assembled connector housing • Integral terminal position assurance (TPA)

Solderless Terminals

Ring and Spade
Quick Disconnects
Perma-Seal Splices



Wire Terminals	600V	50.0A	26 to 8 AWG, 0.14 to 10.00mm ²	UL- or CSA- approved depending on product	<ul style="list-style-type: none"> • Various crimp styles • Insulated, partially insulated or uninsulated • High-temperature terminals available • Metric and Imperial sizes • Positive locking terminals available • PCB tabs, wire pins and snap plugs available
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Battery Cable Lugs

Battery
Cable Lugs



Wire Terminals	600V	50.0A	8 AWG to 250 MCM, 10.00 to 120.00mm ²	UL- and CSA- approved	<ul style="list-style-type: none"> • Seamless barrel design • AWG and stud size identification on barrel • Rated up to +650°C
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Eurostyle Terminal Blocks

Eurostyle
Terminal Blocks



Wire-to-Wire Terminal Blocks	300V	10.0A	26 to 14 AWG, 0.14 to 2.50mm ²	UL- approved Glow Wire capable	<ul style="list-style-type: none"> • 2 to 24 circuits • 2.50 to 10.00mm pitch • Push-button operation • Gas-tight and vibration-proof
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*Depending on wire size

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Sealed Industrial Connectors

High-Current Universal Clamp Terminal Blocks



CONFIGURATION	MAX. VOLTAGE*	MAX. CURRENT*	WIRE SIZE	VALIDATION	FEATURES
Wire-to-Wire Terminal Blocks	1,000V	380.0A	6 AWG to 500 MCM, 16.00 to 240.00mm ²	UL 1059 IEC EN 61238-1:2003	<ul style="list-style-type: none"> • Single-pole, single pole/4-connection, or 3-pole configurations • Ideal for Copper or Aluminum wires

*Depending on wire size

CHALLENGES AND SOLUTIONS

Efficiency in Connectivity

Molex connector systems, terminal blocks and solderless terminals are designed to optimize connectivity, ensuring efficient and reliable energy transfer.

Seamless Integration

Our products provide robust and dependable capabilities for seamlessly connecting various components to support smooth operation of energy infrastructure.

Enhanced Safety Standards

Our connector systems adhere to the highest industry standards. Robust materials and precise engineering minimize risks associated with electrical connections and contribute to overall safety.

Adaptable to Diverse Environments

With a focus on versatility, Molex designs products to thrive in demanding environmental conditions, ensuring consistent performance across solar, wind and other renewable energy installations.

Reliability for Long-Term Performance

Our terminal blocks and solderless terminals are built to withstand the test of time. Dependable connections translate to increased system reliability and reduced maintenance costs.

Ease of Installation

User-friendly connector systems simplify installation, reducing downtime and labor costs for system setup.

Optimal Power Transmission

Our solutions are engineered to minimize energy loss and optimize power transmission, enhancing overall system efficiency and performance.

Compatibility with Evolving Technologies

Future-proof your systems with connector solutions that are compatible with evolving technologies. Stay ahead in the dynamic renewable energy landscape with products designed to accommodate advancements in the industry.

MARKETS AND APPLICATIONS

Electrical and Power

Renewable energy systems
Solar inverters

Automotive

Electric vehicle charging stations
Electric vehicle infrastructure

Energy Storage

Battery storage systems
Solar storage systems



Renewable Energy Systems



Electric Vehicle Charging Stations



Battery Storage Systems

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