

## MiaSolé SolarRide Transportation Solution

SolarRide™ provides auxiliary power when the truck engine is on and when it is off, providing fuel savings and improved battery life

### FLEX solar modules



### Components:

- FLEX solar modules
- SolarRide smart charge controller
- Cables

### SolarRide smart charge controller

MiaSolé, the producer of powerful, lightweight and flexible solar cells and modules, has developed a solar solution specifically for trucks and other forms of transportation. The SolarRide™ transportation solution is comprised of solar modules and a proprietary smart charge controller that ensures you receive the maximum benefit from your solar investment.

### SolarRide auxiliary power allows you to:

- **Reduce Fuel Consumption.** Use solar energy instead of gas to power auxiliary systems
- **Reduce Maintenance Costs.** Running the truck engine less results in decreased intervals for scheduled maintenance.
- **Reduce Emissions.** Using clean solar power instead of fuel reduces emissions to help truckers comply with environmental regulations
- **Provide Stand-by Power.** Use solar energy for standby power without running the engine.
- **Provide Power to Truck De-icing Systems.** De-ice the truck with solar energy instead of fuel
- **Off-load Alternator Loads.** Use solar power to provide off-load electrical power

### The SolarRide smart charge controller optimizes solar power

The MiaSolé smart charge controller ensures that all of the power generated by the solar modules is utilized and provides overcharge and undercharge protection.

### Key features of the proprietary, unique smart charge controller:

- When the truck engine is on, the charge controller prioritizes solar power over alternator power
- When the engine is off, solar power charges the vehicle battery(s)
- SolarRide smart charge controller reliably manages power delivery from multiple sources

# MiaSolé SolarRide™ Transportation Solution

## Power many systems

- **Safety Lighting.** Supply power for safety lights on light duty road construction and service vehicles..
- **Liftgate.** Supply auxiliary power to liftgate batteries ensuring gate operation through the full delivery cycle and a decrease of tractor or reefer charging, resulting in reduced fuel consumption and extended battery life.
- **No-idle HVAC.** Eliminate fuel consumption associated with diesel-powered APUs. Reduce additional load on engine alternator resulting in decreased fuel consumption and lower engine maintenance cost.
- **Refrigeration.** Supply power to keep cold-plate storage systems charged or to run evaporator fans while in operation, resulting in extended daily range, reduced fuel consumption, and lower engine maintenance cost.

## Flex Solar Modules

The FLEX Series module is a CIGS-based flexible thin-film solar module that is thin, flexible, shatterproof and provides one of the highest efficiencies on the market today, at up to 17%.

FLEX modules provide the following benefits for transportation:

- Adhere directly to the roof with no roof penetrations, eliminating the risk of leaks
- Thin modules offer superior wind resistance
- Shatterproof and durable
- Low weight

## Customizable

FLEX modules are available in a variety of lengths and widths, providing a customized solution for your cab, trailer or box truck.

## SolarRide Smart Charge Controller

Model	MHT-DS15	
Battery Voltage	12V	24V
Maximum Solar Power	200W	400W
Maximum Charging Current	15A	
Maximum Solar Voc	60V	
Ingress Protection	IP68	
Certifications	CE, ISO, RoHS	



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