



RETURN ON INVESTMENT IN LESS THAN
1 YEAR

**440C
IDL
SMRT**

HEAVY DUTY SOLAR CHARGER FOR SMART IDLING

MERLIN® PATENTED DESIGN, MILITARY GRADE, SOLAR SOLUTIONS OPTIMIZED FOR CLASS 8 VEHICLES



MERLIN® TECHNOLOGY

Industry Leading Power Output | Enhanced Performance Under all Light Conditions | Designed and Engineered in USA | Outstanding Aesthetics | Redundancy by Design | Robust Module Integrity and Performance Under Extreme Conditions | Military Grade Design, Materials and Approvals

PRODUCT FEATURES

Peel & Stick easy to Install Heavy Duty Solar Charger | Jump Start Avoidance | Battery Management Maintenance Free | Fully Integrated MERLIN® Solution with Patented Design, Optimized for Maximum Performance in scattered light & extreme weather conditions with Integrated charge controller | Up to 50% additional runtime on smart HVAC systems

CUSTOMER BENEFITS

MERLIN® solar systems can save fuel, effectively eliminate jump starts, extend battery life, increase reliability and increase power available to offset parasitic loads. It also provides drivers with the extra power to run hotel loads reducing the number of auto-start features. **Impressive ROI numbers, Customer Validated, with Thousands of Deployments in North America and Asia.**

MERLIN® GRID PATENTED TECHNOLOGY: FLEXIBLE – RUGGED – LIGHTWEIGHT – MONO cSi



80% Lighter
than Glass Systems



50X More Durable
vs. Bus-Bar Technology



20% More Energy
In Real World Conditions



2.5X Power Density
vs. Thin Film Technology

CUSTOMER BENEFITS

- Increase Profits
- Reduce Operating Expenses
- Reduce Cost of Ownership
- Eliminate Jump Starts
- Minimize use of Auto-Start Feature
- Reduce Maintenance Expenses
- Reduce Vehicle Downtime
- Increase Fuel Savings

MERLIN® 440C IDL-SMRT SOLAR SYSTEMS FOR DIFFERENT ROOF FAIRINGS



440W System



Hotel Loads



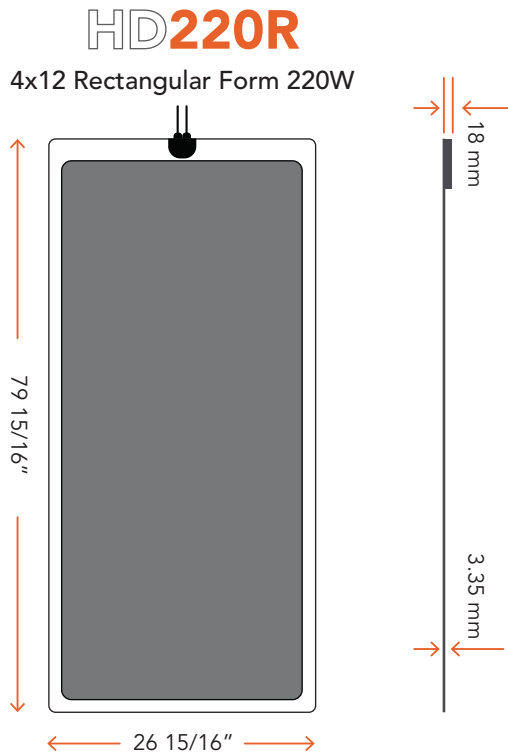
Solar Panels



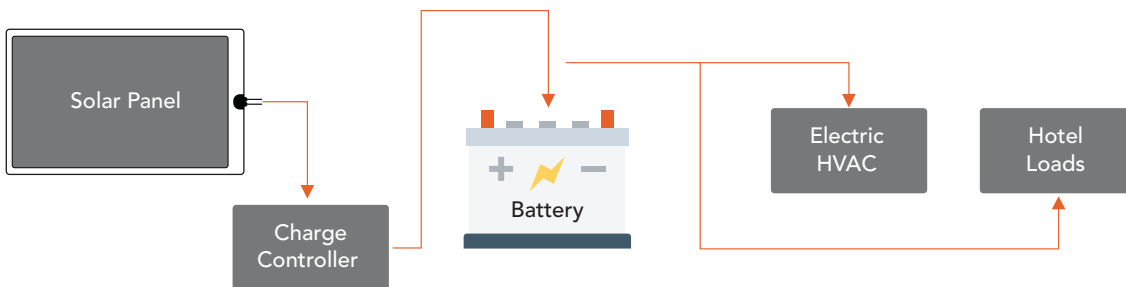
Kit Box: Includes charge controller, circuit breaker, wiring, mounting HW & installation manual

TECHNICAL SPECS

Key components of the kit	
Solar Panel	MERLIN® flexible solar PV panel 440W system (2x 220W 4x12 Configuration)
Charge controller	Optimized multi-stage algorithm
Safety	Disconnect switch
Connections	Wiring harness from solar to charge controller to battery
Battery voltage	Compatible with 12V



SCHEMATIC CIRCUIT



UL Standard 1703
Testing: Passed

IEC 61215/61730
Testing: Passed



Read more