



TRAILBLAZER SERIES TBS100, TBS170R, TBS170L KITS

MERLIN® PATENTED DESIGN, MILITARY GRADE, SOLAR SOLUTIONS OPTIMIZED FOR PORTABLE POWER

MERLIN® TECHNOLOGY

Industry leading power output | Designed and engineered in USA Enhanced performance under all light conditions | Outstanding aesthetics | Redundancy by design | Robust module integrity and performance under extreme conditions | Military grade design, materials and approvals

PRODUCT FEATURES

Light weight and heavy duty solar module | Emergency power anywhere | Intelligent and elegant design | Fully-integrated, patented MERLIN® technology | Optimized for maximum performance in scattered light & extreme weather conditions

CUSTOMER BENEFITS

MERLIN® solar system enables portable power & handles emergency conditions, increases reliability and increases power availability. Simple plug and play solar module and compatible with most charge controller brands. Scalable with multiple modules to enable larger system. Worldwide deployments in extreme environments.

CUSTOMER BENEFITS

Portable Power | Light Weight | Rugged and Durable |
Quick Install | Off-Grid Power System | Offset Hotel Loads

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





Qty:1

Battery Cable

Home Run Cable

Qty:2



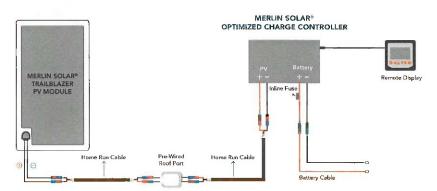
Merlin Solar® Optimized Charge Controller with Fuse Qty:1

Mounting Hardware and Edge Tape Qty:1

Pre-Wired Roof Port Qty:1



Merlin Solar® Remote Display Qty:1



TECHNICAL SPECS

Oty:1

Electrical Characteristics (STC) ¹ MERLIN® PV Module Specs		TBS100	TBS170R	TBS170S
Cell Type		<u> </u>	PERC	
Rated Power (P Max)	W	100	170	170
Voltage at Pmax (Vmp)	V	22.9	19.79	19.79
Current at Pmax (Imp)	Α	4.50	8.59	8.59
Open Circuit Voltage (Voc)	V	27.80	23.90	23.90
Short Circuit Current (Isc)	Α	4.68	9.21	9.21
Active Area Efficiency	%	20.42	20.42 18.76	
Temperature Coefficient of Isc	%/°C	0.05		
Temperature Coefficient of Voc	%/°C	-0.33		
Temperature Coefficient of Pmax	%/°C	-0.42		
Operating Temperature	°C	-40 to +85		
Termination		MC4 connectors come standard		

^{1.} STC standard test conditions: 1000W/m² intensity, Air Mass 1.5, 25°C cell temperature. Power tolerance is +/- 5% W at STC. The electrical characteristics are within +/- 10% unless otherwise specified.

2. Specifications are subject to change.











^{3.} Panel is designed to be used as an individual unit and not to be connected serially into a large voltage system.