



## TRAILBLAZER SERIES

MERLIN® PATENTED DESIGN, MILITARY GRADE, MODULAR SOLUTIONS FOR COMPLEX ROOFS

### 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

Modular design allows you to mix and match sizes to maximize roof area | Jump start avoidance | Optimized for maximum performance in scattered light & extreme weather conditions | Compatible with lead acid, AGM, gel, and lithium batteries | Starter and house battery maintenance | Various mounting options, including mechanical, peel & stick, and more



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



**80% Lighter**  
than Glass Panels



**50X More Durable**  
vs. Bus-Bar Technology



**20% More Energy**  
In Real World Conditions



**2.5X Power Density**  
vs. Thin Film Technology

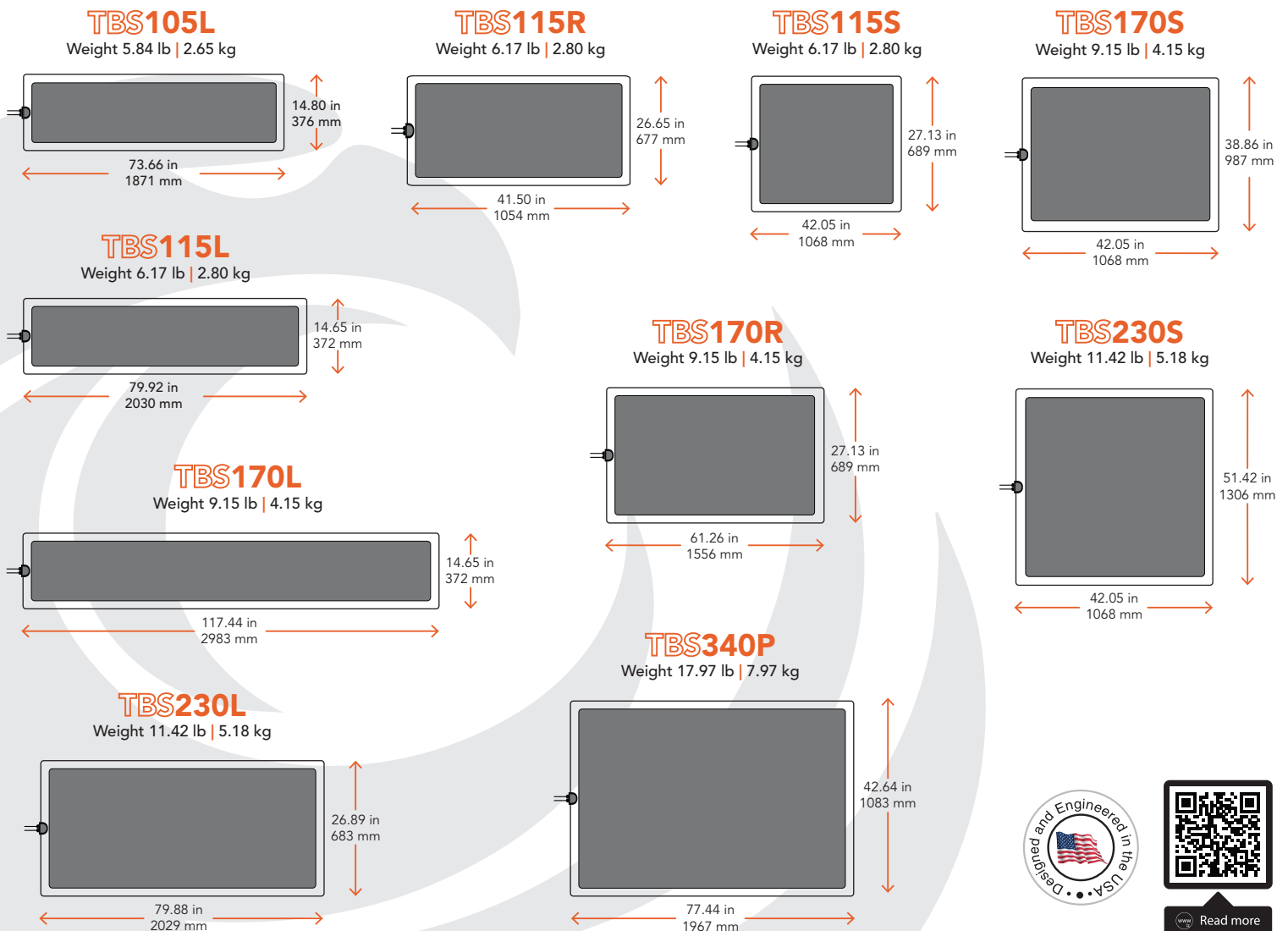
### POWER USAGE

- Charge & Maintain Batteries
- Portable Electronics
- Fans & Lights
- Refrigerators & Freezers
- Pumps, Alarms, & Sensors
- TV, Stereos, & Appliances

## TECHNICAL SPECS

Electrical Characteristics (STC) <sup>1</sup> MERLIN® PV Module Specs	Unit	TBS105L	TBS115R	TBS115L   TBS115S	TBS170L   TBS170S   TBS170R	TBS230L   TBS230S	TBS340P
Top		JBOX LP					
Cell Type		PERC					
Rated Power (Pmax)	W	105	115	115	170	230	340
Voltage Pmax	Vdc	24.59	26.93	13.39	19.79	26.78	19.79
Current Imp	Amps	4.27	4.27	8.59	8.59	8.59	17.18
Voc	Vdc	29.22	31.87	15.94	23.90	31.87	23.90
Isc	Amps	4.61	4.61	9.21	9.21	9.21	19.15
Active Area Efficiency		18.76%	18.76%	18.76%	18.76%	18.76%	18.76%

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.



\*Weight Specifications Pertains only to the Solar Panel



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