

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



20% More Energy In Real World Conditions



50X More Durable vs. Bus-Bar Technology

2.5X Power Density vs. Thin Film Technology

POWER USAGE

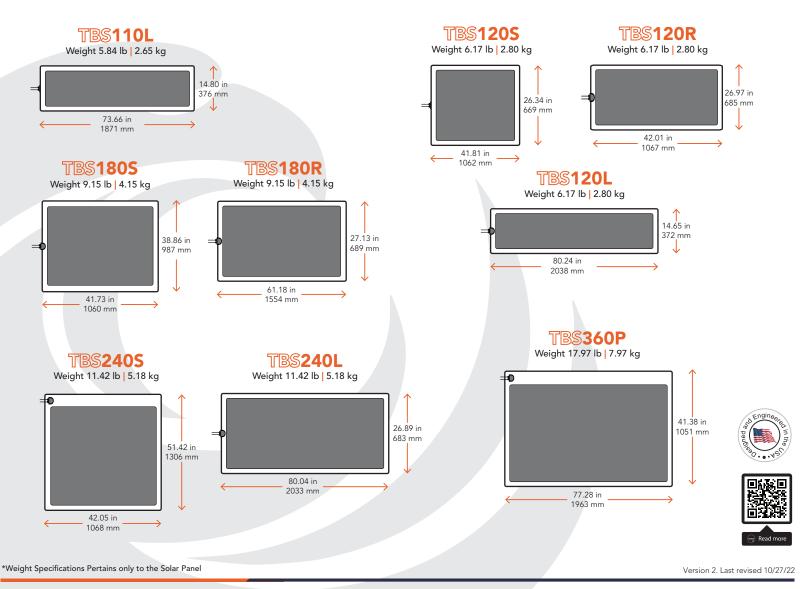
- Charge & Maintain Batteries
- Portable Electronics
- Fans & Lights
- Refrigerators & Freezers
- Pumps, Alarms, & Sensors
- TV, Stereos, & Appliances

TECHNICAL SPECS

Electrical Characteristics (STC) ¹ MERLIN [®] PV Module Specs	TBS110L	TBS120S	TBS120R	TBS120L	TBS180S	TBS180R	TBS240S	TBS240L	TBS360P
Part Number (Black)	TBS-P0440BHL0	TBS-P0240BFS0		TBS-P0240BFL0		TBS-P0360BFRO	TBS-P0480BFS0	TBS-P0480BFLO	TBS-P0720BFRP
Part Number (White)			TBS-P0480WHRO	TBS-P0240WFL0	TBS-P0360WFS0	TBS-P0360WFRO	TBS-P0480WFS0	TBS-P0480WFL0	TBS-P0720WFRP
Cell Туре	G1 PERC								
Rated Power (Pmax)		110	120	120		180		240	360
Voltage Pmax (W)		24.6	26.9	13.34		19.8		26.8	19.8
Current Imp (Vdc)		4.47	4.47	9.00		9.00		9.00	18.0
Voc (Amps)		29.22	31.87	15.94		23.90		31.87	23.90
lsc (Vdc)		4.84	4.84	9.67		9.67		9.67	20.1
Active Area Efficiency	19%	19%	19%	19%	19%	19%	19%	19%	19%

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.





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Image: Solar constraints

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