



BXD95W HEAVY DUTY PORTABLE SOLAR CHARGER

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 & Uninstall | Ergonomic Handle | Built in Stands |
Pockets for Cables

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



80% Lighter
than Glass Panels



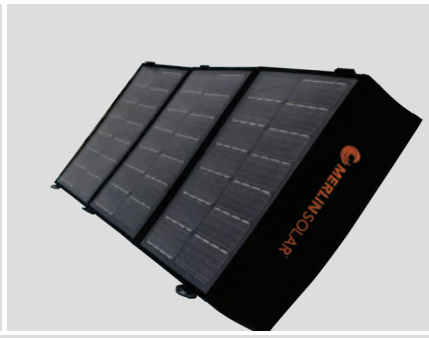
50X More Durable
vs. Bus-Bar Technology



20% More Energy
In Real World Conditions



2.5X Power Density
vs. Thin Film Technology

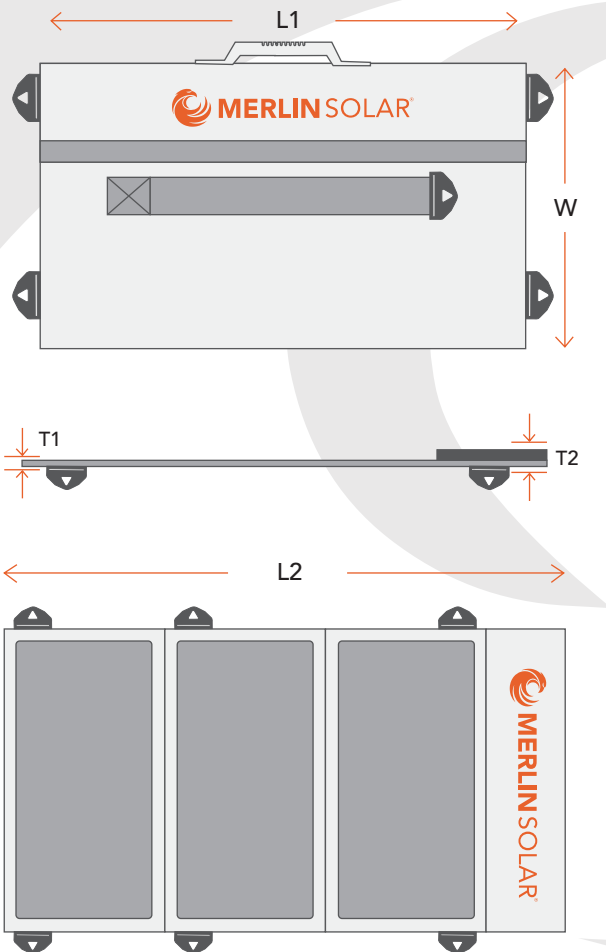


What can you power?

On average, this 95 W power solar panel, exposed to 6 hours of sunlight a day, can deliver 570 Wh of power to a Li-ion battery. Combined with a 600 Wh Li-ion battery pack, the BXD95W can power your favorite devices on-the-go.

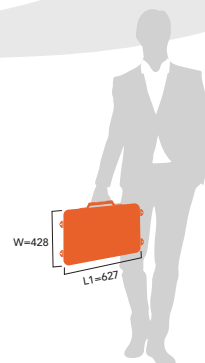
| Device | Cell Phone | LED Lamp | Fan | Laptop | Battery Charger | Small Water Pump |
|----------|------------|----------|-------|--------|-----------------|------------------|
| Power | 1 W | 3 W | 25 W | 30 W | 60 W | 80 W |
| Run Time | 600 hr | 200 hr | 24 hr | 20 hr | 10 hr | 7.5 hr |

TECHNICAL SPECS



| Electrical Characteristics (STC) ¹ MERLIN® PV Module Specs | Unit | 42R (HC) |
|--|--|------------|
| Cell Type | | Mono |
| Number of Cells | | 42 |
| Rated Power (P Max) | W | 95 |
| Voltage at Pmax (Vmp) | V | 23.16 |
| Current at Pmax (Imp) | A | 4.29 |
| Open Circuit Voltage (Voc) | V | 26.86 |
| Short Circuit Current (Isc) | A | 4.59 |
| Active Area Efficiency | % | 18.4 |
| 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 | MC-4 connectors come standard, others available by request | |
| 1. STC standard test conditions: 1000W/m ² 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. | | |

| Physical Characteristics | | | | | |
|----------------------------------|---------------------------------|----------------------------------|-----------------|-------------------------------|----------------------------------|
| Length 1 | Length 2 | Width | Thickness 1 | Thickness 2 | Weight |
| 627 mm | 1327 mm | 428 mm | 24 mm | 44 mm | 3.5 kg |
| 24 ¹¹ / ₁₆ | 52 ³ / ₁₆ | 16 ¹³ / ₁₆ | 7/ ₈ | 1 ³ / ₄ | 7 ³ / ₄ lb |



Read more



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