



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

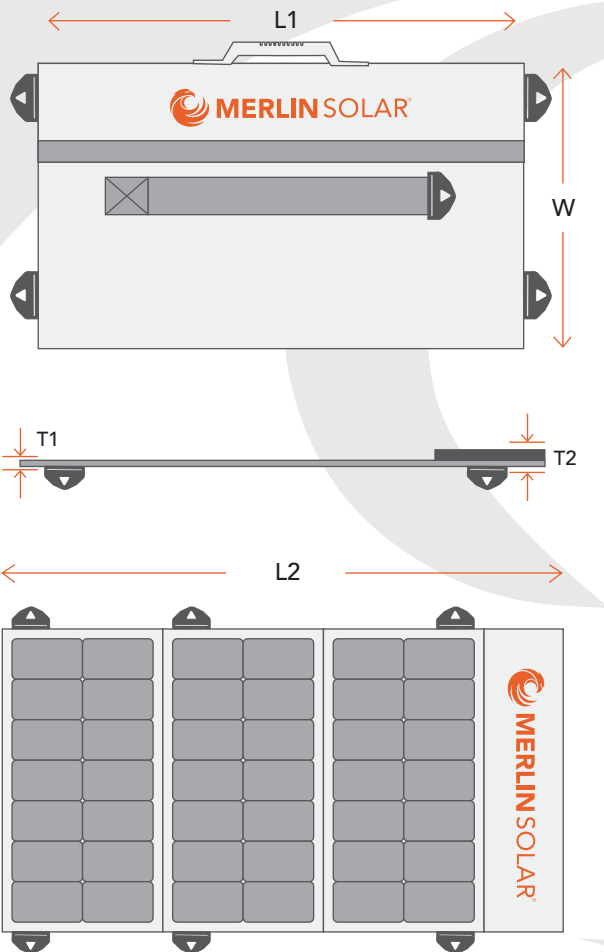


What can you power?

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.

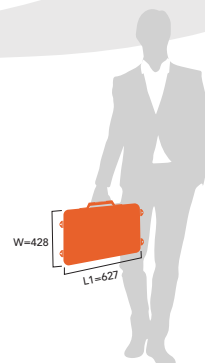
Device	Cell Phone	LED Lamp	Fan	Laptop	Battery Charger	Small Water Pump
Power	1 W	3 W	25 W	30 W	60 W	80 W
Run Time	600 hr	200 hr	24 hr	20 hr	10 hr	7.5 hr

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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For further details, contact: **MERLIN SOLAR TECHNOLOGIES, INC.**
 5891 Rue Ferrari, San Jose, CA 95138 | Ph: (408) 321-8258
 E-mail: sales@merlinsolar.com | www.merlinsolar.com



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