

BR72 PV Module

Key Features

- ◆ Seventy-two (72) series connected, high efficiency, Merlin solar cells optimize panel performance
- ◆ Merlin technology yields higher energy & increased durability
- ◆ Low weight, non-penetrating mounting solutions take advantage of the lightweight module characteristics
- ◆ Superior low-sun angle and low light performance provide excellent energy yield
- ◆ Bypass diodes allow for maximum performance under shade conditions
- ◆ Weather resistant package, sealed junction box and protective back sheet provide a long life, reliable and durable package
- ◆ Modules are built and tested to UL standard 1703, IEC 61215 & IEC61730
- ◆ 5-year limited warranty against defective materials and workmanship
- ◆ 25-year warranty on power output

Merlin Technology

- ◆ Industry leading power output with standard cells.
- ◆ Lower weight & simpler installations lead to dramatic install cost savings.
- ◆ Uncompromising module integrity and performance even under extreme conditions. Higher energy production throughout module lifetime.
- ◆ Dramatically improved aesthetics

Product Description

MSTI BR Series PV module line is a bold innovative product designed for a wide range of photovoltaic applications, including commercial rooftops, ground mount and residential. MSTI is a Silicon Valley based innovator of (PV) cells and modules.

Low Installed System Cost

MSTI's modules have a flex tolerant lightweight form factor that enables rapid & easy installation as well as low cost system integration with a wide variety of mounting solutions. Modules are optimized for ground mount, commercial, and industrial roof, allowing our customers to increase their profitability and to complete projects that would not be possible with other technologies.

High Energy Performance

MSTI® is the market leader in high efficiency flex tolerant modules. MSTI's modules are designed for superior performance under all light conditions, including low sun angle, providing excellent energy yield throughout the year.

Proven Durability

MSTI® Modules are built to meet or exceed UL standard 1703, IEC 61215 & IEC 61730. Cells and modules are continually subjected to rigorous environmental and accelerated life cycle testing beyond industry requirements.

Electrical Characteristics (STC)¹

MST PV Module, Model: BR72

Unit	320	325	330	335	340	345	350
Cell Type	Mono	Mono	Mono	Mono	Mono	Mono	Mono
Number in series	72	72	72	72	72	72	72
Rated Power (Pmax)	W	320	325	330	335	340	345
Voltage at Pmax (Vmp)	V	36.40	36.90	37.46	37.97	38.42	38.94
Current at Pmax (Imp)	A	8.80	8.82	8.83	8.84	8.85	8.87
Open-circuit Voltage (Voc)	V	44.30	44.85	45.38	45.89	46.13	46.30
Short-circuit current (Isc)	A	9.09	9.11	9.13	9.15	9.17	9.27
Active Area Efficiency	%	18.19	18.48	18.76	19.05	19.33	19.90
Temperature Co-efficient of	%/°C	0.05					
Temperature Co-efficient of Voc	%/°C	-0.33					
Temperature Co-efficient of Pmax	%/°C	-0.42					
Maximum series fuse rating	A	15					
Maximum system voltage	VDC	600					
Nominal Operating Cell Temperature (NOCT)	°C	46 +/- 2					
Operating temperature	°C	- 40 to + 85					
Termination	Jbox with PV cable and polarize connectors						

1. STC standard test conditions: 1000W/m² intensity, Air Mass 1.5, 25°C cell temperature.

The power tolerance is **-0% / +3% W**, at STC. The electrical characteristics are within $\pm 10\%$ unless otherwise specified.

Qualifications

UL Standard 1703 testing: Passed

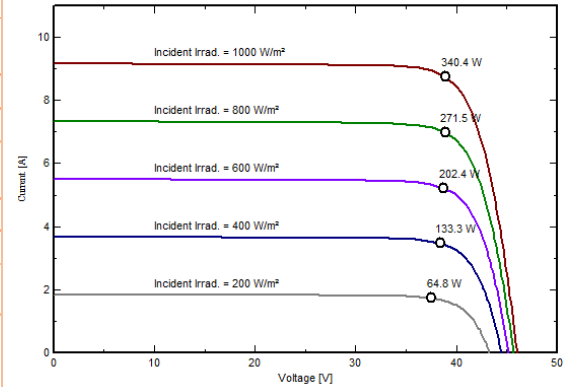
IEC 61215/61730 testing: Passed

Limited Warranty

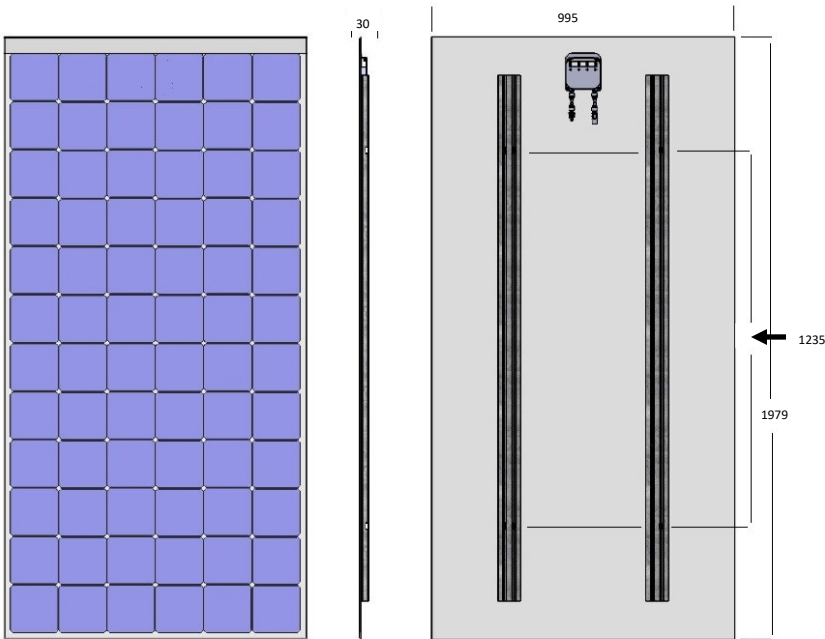
Materials and workmanship: 5 years

Power output: 25 years (90% of nominal rated power for years 1 to 10, 80% of nominal rated power for years 11 to 25)

IV Curves PV Module BR72 - 340



Module Drawing BR72



Physical Characteristics Model BR72

Units	Length	Width	Depth	Weight
mm / kg	1979	995	30	23.36
in / lb	77.91	39.17	1.18	51.5

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MERLINSOLARTM
REDEFINE POSSIBLE
Designed and manufactured in the USA

Specifications are subject to change. Warranty applies only to products installed in USA and Europe. Different warranty terms are available in other geographic regions. Contact your local reseller for complete terms of the limited warranty.

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