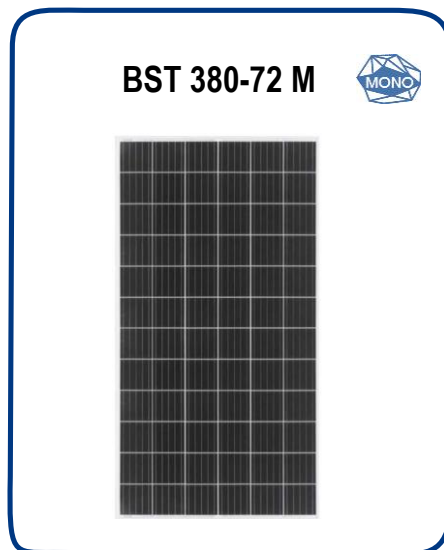


The DELTA BST series are photovoltaic modules made of premium materials. At a low solar irradiance intensity, DELTA BST generate more electricity than standard solar modules with similar characteristics. During the manufacture of DELTA BST modules, a multi-stage quality control of components and processes is performed, including the IV test and a two-stage EL test before and after lamination. DELTA BST stand for high performance, durability and advanced technologies.



Cells

Technology	Mono crystal
Cell thickness.....	220 μm
Number of cells.....	72 (6x12)
Cell size.....	158.75 x 158.75 full size
Quality class.....	Grade A+

Temperature coefficients

NOCT*.....	45±3°C
Of power (P_{max}).....	-0,4 %/°C
Of voltage (U_{oc}).....	-0,29 %/°C
Of current (I_{sc}).....	0,05 %/°C
Operating and storage temperature.....	-40 ÷ 86°C

*NOCT - normal operating temperature of solar module

Electrical parameters (STC)*

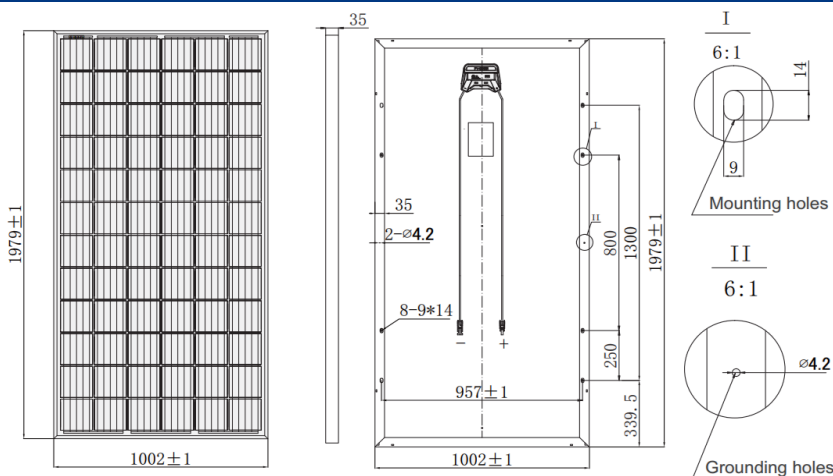
Peak electrical power (P_{max}).....	380 W
Tolerance.....	+3 %
Nominal voltage (U_{nom}).....	24 V
Voltage at maximum power point (U_{mp}).....	39,9 V
Current at maximum power point (I_{mp}).....	9,52 A
Short-circuit current (I_{sc}).....	9,97 A
Open-circuit voltage (U_{oc}).....	48,7 V
Maximum system voltage.....	1000 V
Maximum series fuse rating.....	15 A
Cell efficiency.....	21,5 %
Module efficiency.....	19,16 %

Mechanical characteristics

Module dimensions.....	1979 x 1002 x 35 mm
Weight.....	23 kg
Front glass.....	Tempered non-reflecting glass 3.2 mm
Frame.....	Anodized aluminum
Terminal box.....	IP 68
Connectors.....	MC4
Cable length.....	900 mm
Output cable.....	4 mm ²
Number of diodes.....	3
Wind load.....	5400 Pa

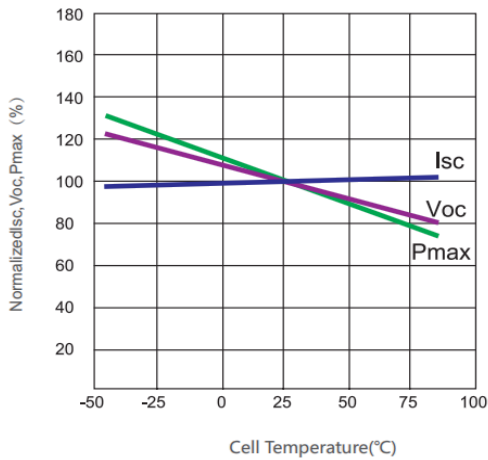
*Standard measurement conditions (STC): light density 1000 W/m², air mass AM = 1.5, nominal temperature 25°C

Solar module arrangement

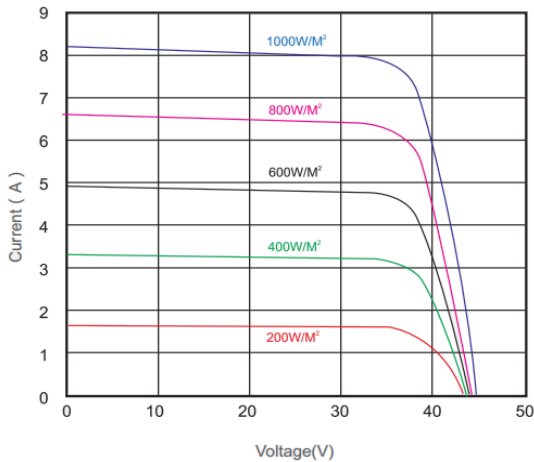


ATTENTION! The solar module should be installed and connected by a qualified technician with the corresponding access level. While connecting the solar module, strictly observe the connection polarity. Be sure to use a solar charge controller to charge the battery and power the load. Before using the module, read the manual carefully.

Power voltage current curve
at different temperature



I-V curves at sun of 380-72 M
at different irradiance



Advantages of DELTA BST series modules



High production standards

The quality control of BST modules complies with international standards IEC61215 and IEC61730, and also includes an extended procedure containing 74 quality control points. Particular attention is given to the quality of raw materials.



Higher electric-power generation

The preset power reserve is guaranteed to be higher than the nominal up to +3%. High power generation rates during shading or cloudy weather.



High efficiency

Cell efficiency 21,5 %
Module efficiency 19,16 %



Resistance to loads

The module can withstand high wind loads (up to 2400 Pa) and snow loads (up to 5400 Pa).



International management system

The products are manufactured and certified in accordance with ISO9001 standard.



Fire and chemical resistance

High resistance to salt and ammonia. Made of non combustible materials.



Reliability

Not subject to the effect of PID (potential induced degradation)

Our products are constantly being improved, so we reserve the right to make changes without prior notice.

Warranty

- The warranty for the solar module is 12 years and does not cover any damages caused by mechanical, thermal or other external influences.
- DELTA Solar guarantees that more than 90% of the declared nominal power will be retained for 12 years. 80% on the declared nominal power will be retained for 25 years.

Forecasted power conservation of the solar module

LINEAR PERFORMANCE WARRANTY

- 12 Years Manufacturing Warranty
- 12 Years 90% Power Output
- 25 Years 80% Power Output

