

7T2 SERIES

- ✓ High-performance solar modules offering higher efficiency, lower installation costs
- ✓ 72 high-quality mono-crystalline cells per module
- ✓ Tested to UL 1703 and CEC with a Class C fire rating
- ✓ 25-year linear performance warranty
- ✓ Manufactured end-to-end in Milwaukee, Wisconsin (USA) using Helios Solar Works advanced, automated platform

Helios Solar Works manufactures high-performance mono-crystalline solar modules for solar electric systems. We use only high-quality components and an advanced, automated manufacturing platform to offer modules that deliver higher efficiency, lower installation costs, and a smaller system footprint.

Helios Solar Works is headquartered in Milwaukee, Wisconsin. We manufacture our modules using materials sourced from regional and U.S. suppliers whenever possible.

CATEGORY

Mono-crystalline Solar (72 Cell)

CHARACTERISTICS

Dimension: 1,976 mm x 990 mm
(77.79" x 38.98")

Area: 1.956 m² (21.05 Sq Ft)

Thickness: 40 mm (1.58")

Weight: 22.1 kg (48.72 lbs)

OUTPUT CLASSES

315, 310, 305, 300, 295, 290, 285

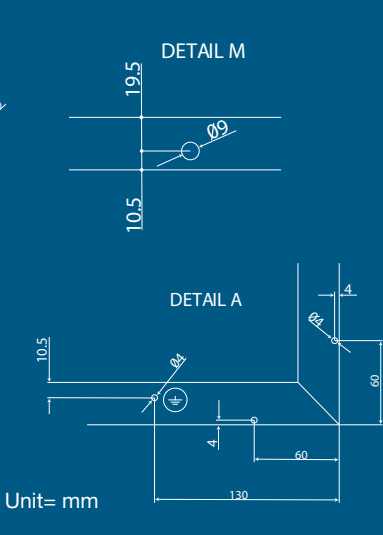
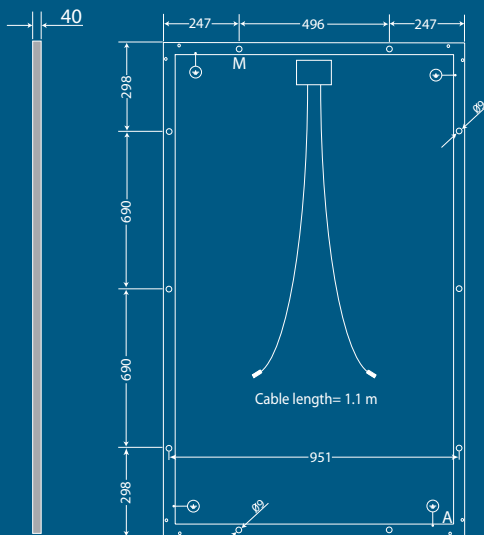
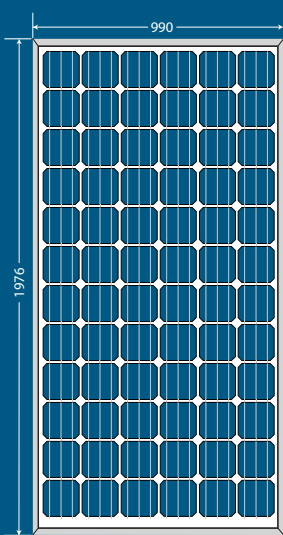
WARRANTY

25-year linear performance warranty
delivering 80% power at STC

10-year workmanship warranty



7T2 SERIES



ELECTRICAL DATA STC	7T2 315	7T2 310	7T2 305	7T2 300	7T2 295	7T2 290	7T2 285
Rated Power PMPP (W)	= 315	310	305	300	295	290	285
MPP Voltage (V)	= 37.00	36.77	36.65	36.55	36.40	36.25	36.10
MPP Current (A)	= 8.51	8.43	8.32	8.20	8.10	8.00	7.90
Open Circuit Voltage (V)	= 45.50	45.40	45.10	44.96	44.77	44.65	44.40
Short Circuit Current (A)	= 9.00	8.90	8.86	8.77	8.67	8.56	8.45
Module Efficiency (%)	= 16.10	15.85	15.59	15.34	15.08	14.83	14.57

Measured at (STC) Standard Test Conditions 25° C, insolation 1,000 W/m², AM 1.5.

ELECTRICAL DATA NOCT	7T2 315	7T2 310	7T2 305	7T2 300	7T2 295	7T2 290	7T2 285
Rated Power PMPP (W)	= 235.7	232	229	225	221	218	214
MPP Voltage (V)	= 34.12	33.91	33.80	33.72	33.59	33.45	33.31
MPP Current (A)	= 6.90	6.84	6.76	6.67	6.59	6.51	6.43
Open Circuit Voltage (V)	= 41.97	41.88	41.61	41.48	41.31	41.20	40.97
Short Circuit Current (A)	= 7.32	7.24	7.21	7.14	7.05	6.96	6.88

Nominal Operating Cell Temperature (NOCT) values are typical values, 45°C.
Typical cell temperature: insolation 800W/m², ambient temperature 20°C, wind speed 1m/s.

OTHER ELECTRICAL PARAMETERS			
System Voltage (V)	= 600/1,000	Temp. Coefficient PMPP (% / °C)	= -0.41
Temp. Coefficient ISC (% / °C)	= 0.03	Temp. Coefficient UOC (% / °C)	= -0.32

DESIGN			
Cells	= 72 mono-crystalline, 3 bus bar	Backside	= Multilayer sheet
Cell Dimensions	= 156 mm x 156 mm, pseudo-square	Frame	= Anodized aluminum (clear or black)
Front glass	= 3.2mm solar glass, highly transparent and anti-reflective	Connection	= 2 x 1.1 m solar cables with MC4 connectors or compatible
Encapsulation	= EVA - Solar Cells - EVA	Bypass Diodes	= 3 pieces

LIMIT VALUES
Module Temperature -40°C to +80°C
Wind Load 2400 Pa Snow Load 5400 Pa

QUALIFICATIONS
IEC 61215, IEC 61730, ULC/ORD-C1703-01, CEC, FSEC, TÜV NORD, CE

WARRANTY
25-year linear performance warranty. Also 10 years workmanship.

PERFORMANCE OUTPUT
-0/+3 percent