HELIOS
SOLAR WORKS

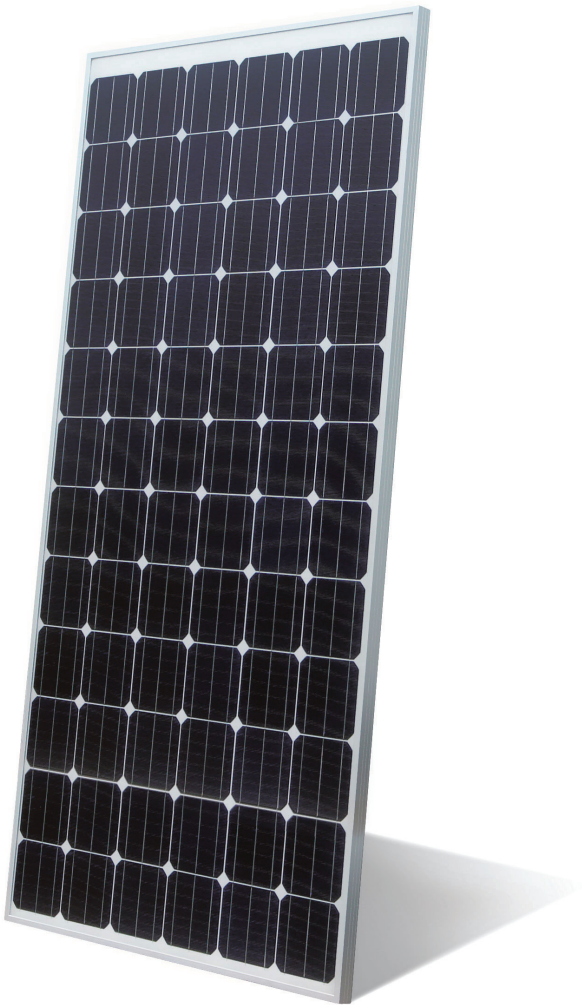
MADE IN MILWAUKEE.
MADE FOR YOU.

7T2 SERIES

- High-performance solar modules offering higher efficiency, lower installation costs
- 72 high-quality mono-crystalline cells per module
- Tested to UL 1703, TUV, CEC, and FSEC with a Class C fire rating
- 25-year warranty of 90 percent of minimum rated power for 10 years and 80 percent for an additional 15 years
- 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:	1,984 mm x 984 mm (78.11" x 38.74")
Area:	1.95 m^2 (20.99 Sq Ft)
Thickness:	40 mm (1.58")
Weight:	25.7 kg (56.7 lbs)

OUTPUT CLASSES

305, 300, 295, 290, 285, 280

WARRANTY

25-year limited power warranty

Year 1-10:	90 percent
Year 11-25:	80 percent

10-year workmanship warranty

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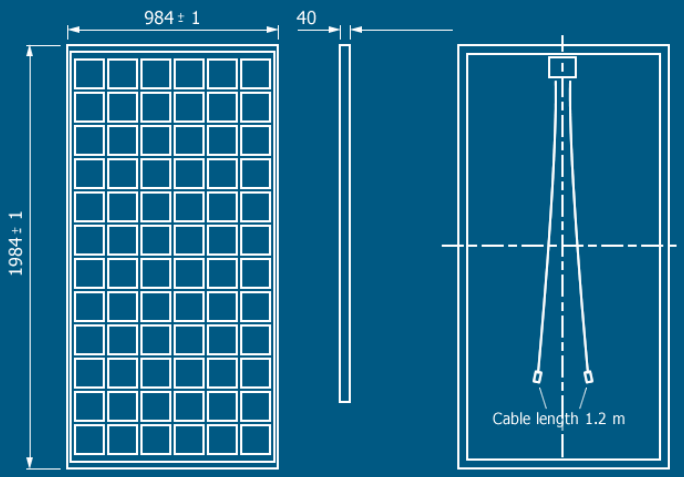
7T2 SERIES



ELECTRICAL DATA STC		7T2 305	7T2 300	7T2 295	7T2 290	7T2 285	7T2 280
Rated Power PMPP (W)	=	305	300	295	290	285	280
MPP Voltage (V)	=	36.7	36.55	36.4	36.25	36.10	35.90
MPP Current (A)	=	8.30	8.20	8.10	8.00	7.90	7.80
Open Circuit Voltage (V)	=	45.08	44.96	44.77	44.65	44.40	44.16
Short Circuit Current (A)	=	8.87	8.77	8.67	8.56	8.45	8.35

Measured at (STC) Standard Test Conditions 25° C, insolation 1,000 W/m^2, AM 1.5.

ELECTRICAL DATA NOCT		7T2 305	7T2 300	7T2 295	7T2 290	7T2 285	7T2 280
Rated Power PMPP (W)	=	229	225	221	218	214	210
MPP Voltage (V)	=	33.85	33.72	33.59	33.45	33.31	33.12
MPP Current (A)	=	6.75	6.67	6.59	6.51	6.43	6.35
Open Circuit Voltage (V)	=	41.60	41.48	41.31	41.20	40.97	40.74
Short Circuit Current (A)	=	7.20	7.14	7.05	6.96	6.88	6.79

Nominal Operating Cell Temperature (NOCT) values are typical values, 45°C.

Typical cell temperature: insolation 800W/m^2, ambient temperature 20°C, wind speed 1m/s.

OTHER ELECTRICAL PARAMETERS

System Voltage (V)	=	600/1,000	Temp. Coefficient PMPP (% / °C)	=	-0.44
Temp. Coefficient ISC (% / °C)	=	0.07	Temp. Coefficient UOC (% / °C)	=	-0.34

DESIGN

Cells	=	72 mono-crystalline, 3 bus bars	Backside	=	Multilayer sheet
Cell Dimensions	=	156 mm x 156 mm, pseudo-square	Frame	=	Anodized aluminum (clear or black)
Front glass	=	4 mm solar glass, highly transparent and anti-reflective	Connection	=	2 x 1.2 m solar cables with multi-contact connectors (MC4)
Encapsulation	=	EVA - Solar Cells - EVA	Bypass Diodes	=	3 pieces

LIMIT VALUES

Module Temperature -40°C to +80°C

QUALIFICATIONS

IEC 61215, IEC 61730, UL1703, CEC, FSEC, ULC/ORD-C1703-01

WARRANTY

25 year limited power warranty; 90 percent for 10 years, 80 percent for 15 years. Also 10 years workmanship.

PERFORMANCE OUTPUT

-0/+3 percent