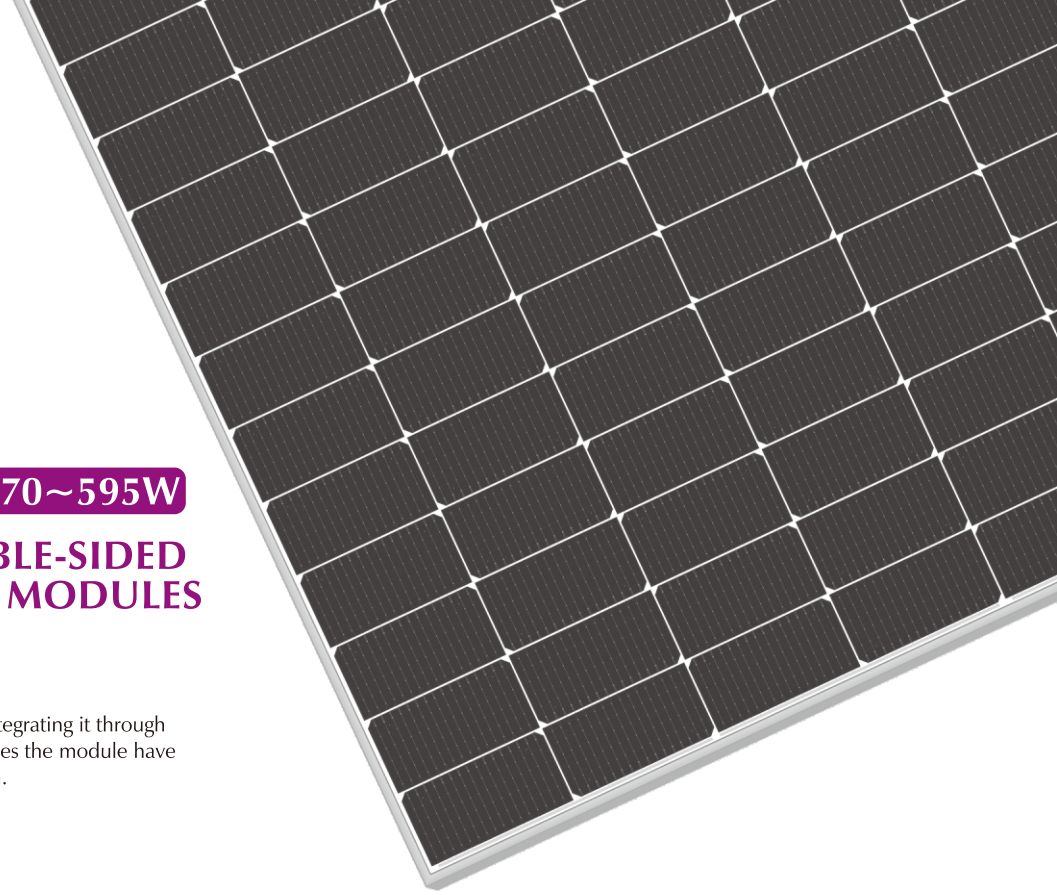
紫创光科集团

HYM 海源复材

股票代码:002529



M10 DT144HBG 570~595W

N-TYPE TOPCON DOUBLE-SIDED DOUBLE-GLASS SOLAR MODULES

Adopting N-Type TOPCon cell technology and integrating it through SMBB and half-cut cell module technologies makes the module have better reliability and lower LID/LETID attenuation.

PRODUCT FEATURES

- Adopting N-type TOPCon multi busbar solar cell technology brings lower resistance and effectively improves the power output of the product
- Better reliability and lower LID effect
- High-quality temperature coefficients ensures higher power generation in extreme temperature areas
- Finer and denser solder strips effectively reduce internal resistance and increase output power
- HC technology for better mechanical load performance
- The full module is certified by frontal snow loads(5400pa) and wind loads(2400pa)

Haiyuan Power Supply is a professional service provider dedicated to the the R&D and development, production and sales of high-efficiency solar modules. Its products are widely used in full scenario power generation systems such as household photovoltaics, industrial and commercial distributed systems, and large-scale ground power stations. The first phase production base has established a mature component production system.

Backed by rigorous product design, industry-leading production technology and fully automated intelligent production lines, the company has established a high-standard intelligent manufacturing system. Strict quality inspection and full-process quality control are enforced across the entire production chain, adhering to the "zero defect" quality goal. This guarantees that every solar module delivers exceptional power generation performance, high conversion efficiency and long-term stable, reliable operation, providing global customers with safe, efficient and sustainable photovoltaic solutions.

PRODUCT SYSTEM AND CERTIFICATION

ISO9001:2015 Quality Management System

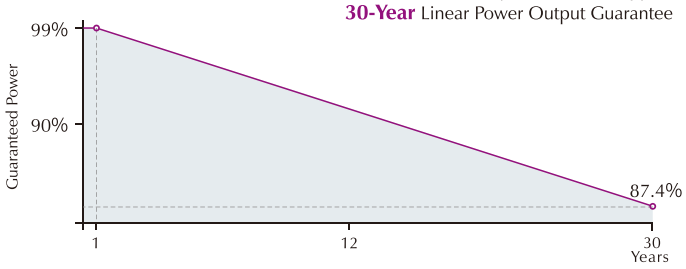
ISO14001:2015 Environmental Management System Standard

ISO45001:2018 International Occupational Health and Safety Assessment System Standard

PRODUCT WARRANTY

12-Year Guarantee of Product Quality & Technical Support

30-Year Linear Power Output Guarantee



The power attenuation is less than **1%** in the first year, and the annual power attenuation is less than **0.4%**.

Xinyu Haiyuan Power Supply Technology Co., Ltd.
Add. : No.1950 High-Tech Industrial Development Zone, Xinyu City, Jiangxi Province, P.R.C (338004)
Stock Name: HYM Stock Code: 002529

DY-TDS-DT144HBG-002 OR
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ELECTRICAL PARAMETERS@STC

Max. Power Output	Pmax(Wp)	570	575	580	585	590	595
Power Tolerance	(%)			±3			
Max. Power Voltage	Vmp(V)	42.07	42.22	42.37	42.52	42.67	42.82
Max. Power Current	Imp(A)	13.55	13.62	13.69	13.76	13.83	13.90
Open Circuit Voltage	Voc(V)	50.74	50.88	51.02	51.16	51.30	51.44
Short Circuit Current	Isc(A)	14.31	14.39	14.47	14.55	14.63	14.71
Module Efficiency	(%)	22.07	22.26	22.45	22.65	22.84	23.03
Refer.Bifacial Factor	(%)			80±5			
5% Max. Power	Pmax(Wp)	599	604	609	614	620	625
5% Module Efficienycy	(%)	23.17	23.37	23.57	23.78	23.98	24.18
15% Max. Power	Pmax(Wp)	656	661	667	673	679	684
15% Module Efficienycy	(%)	25.37	25.60	25.82	26.04	26.27	26.49
25% Max. Power	Pmax(Wp)	713	719	725	731	738	744
25% Module Efficienycy	(%)	27.58	27.82	28.07	28.31	28.55	28.79

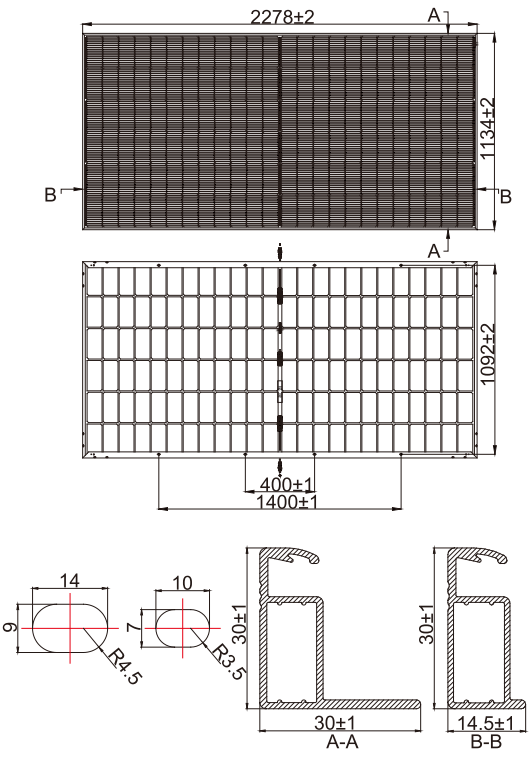
STC : Irradiance 1000W/m², Module Temperature 25°C, AM 1.5.

ELECTRICAL PARAMETERS@NMOT

Max. Power Output	Pmax(Wp)	430	434	438	442	446	449
Max. Power Voltage	Vmp(V)	39.35	39.49	39.63	39.77	39.91	40.05
Max. Power Current	Imp(A)	10.94	11.00	11.05	11.11	11.17	11.22
Open Circuit Voltage	Voc(V)	48.30	48.43	48.57	48.70	48.83	48.97
Short Circuit Current	Isc(A)	11.55	11.62	11.68	11.75	11.81	11.88

NMOT: Irradiance 800W/ m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s.

DIMENSIONS (mm)



*Please refer to the corresponding solar module drawings for specific dimensions and tolerance ranges.

TEMPERATURE COEFFICIENTS

Temperature Coefficients of Pmax	-0.29%/°C
Temperature Coefficients of Voc	-0.24%/°C
Temperature Coefficients of Isc	+0.04%/°C

MECHANICAL PARAMETERS

Cell Type	TOPCon N-type Mono 182x91mm
Number of Cells	144 (6x24)
Dimensions (L*W*H)	2278x1134x30mm
Weight	32kg
Upper surface glass material	2.0mm, Coated Half Tempered Glass
Bottom surface glass material	2.0mm, Glazed Half Tempered Glass
Frame	Anodized Aluminum
Junction Box	Protection Level IP68
Cable, Length	4mm²/ (+) 400mm, (-) 200mm; Customization

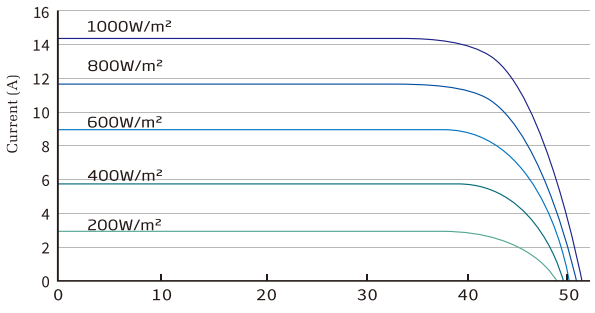
OPERATING CONDITION

Max. System Voltage(V)	1500V DC
Operating Temperature(°C)	-40~+85°C
Max. Wind Load / Snow Load(Pa)	2400/5400 Pa
Max. Over Current(A)	25A
Application Class	Class A
Fire Rating	Class C
NMOT(°C)	42±3°C

PACKAGE INFORMATION

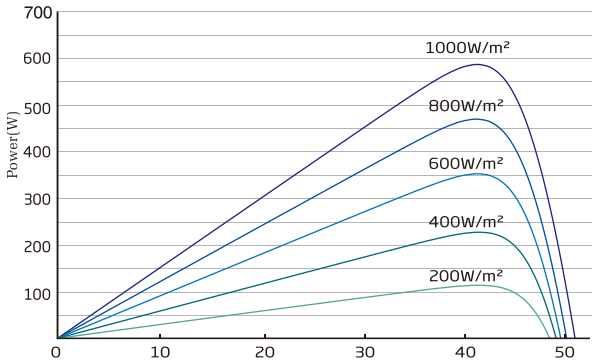
Per Pallet	36pcs / box
17.5m/13.5m/40HQ	936pcs/792pcs/720pcs

CURRENT-VOLTAGE



See ELECTRICAL PARAMETERS@STC DT144HBG 585W

POWER-VOLTAGE



See ELECTRICAL PARAMETERS@STC DT144HBG 585W

*Power measurement tolerance: ±3%
*No notice when product specifications change