Silver Series

TPC Pro-72HCDG

Product Range

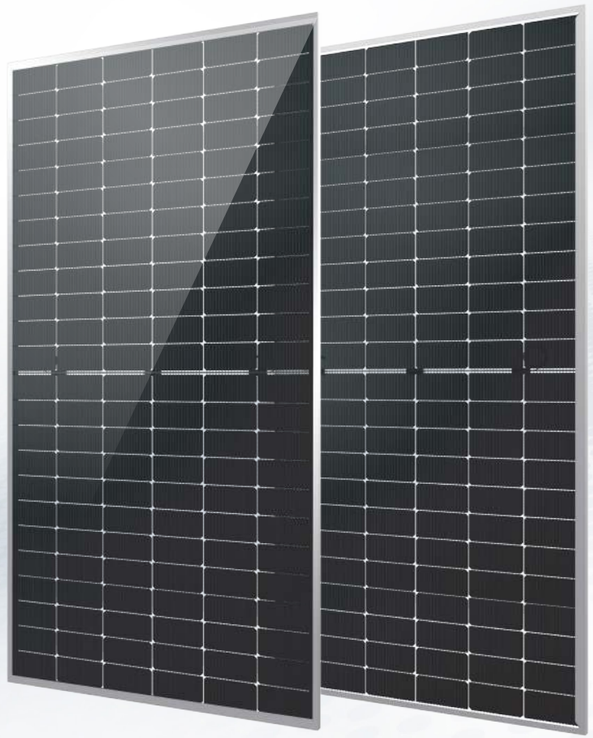
575-600W

N-Type Bifacial
Double Glass

600W
Maximum Power Output

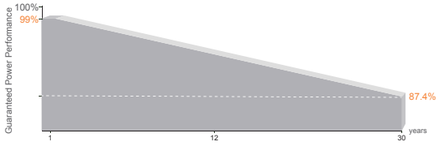
0~+5W
Positive Power Tolerance

22.66%
Maximum Efficiency



Linear Performance Warranty

15 Year Product Warranty
30 Year Linear Power Warranty
<1% First year Power Degradation
<0.4% Year 2-30 Power Degradation



Certifications

Quality Management System and Product Certification.

IEC61215(2021), IEC61730(2023), IEC61701
IEC61215-2（bifaciality）: 2021
ISO9001:2015: Quality Management System
ISO14001:2015: Environment Management System
ISO45001:2018: Occupational health and safety management systems

MBB Half-Cut Solar Cell

182x91mm, 144 cells.

Higher Module Conversion Efficiency

Higher module output up to 600W with module efficiency up to 22.66%.

Low-Light Performance

Advanced glass and surface texturing allow for excellent performance in low-light environments.

Transparent Dual-glass Design

Excellent fire rating, with better temperature coefficiency.

Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.

TPC SOLAR
www.tpcsolars.com

Double Glass, 182mm , 72-CELL HALF-CUT SERIES

ELECTRICAL PARAMETERS AT STC

Module Type: TPC Pro-72HCDG	575M	580M	585M	590M	595M	600M
Maximum Power(Wp)	575W	580W	585W	590W	595W	600W
Open Circuit Voltage(Voc)	52.45V	52.60V	52.75V	52.90V	53.05V	53.20V
Short Circuit Current(Isc)	13.82A	13.89A	13.96A	14.03A	14.10A	14.17A
Maximum Power Voltage(Vm)	43.70V	43.85V	44.00V	44.15V	44.28V	44.42V
Maximum Power Current(Im)	13.16A	13.23A	13.30A	13.37A	13.44A	13.51A
Module Efficiency	21.72%	21.90%	22.09%	22.28%	22.47%	22.66%
Maximum Series Fuse	25A					
Watts Positive Tolerance	0~+5W					
Number Of Diode	3					
Standard Test Conditions	1000W/M²,25°C,AM1.5					
Maximum System Voltage	1500V/DC					
Temperature-Coefficient Isc	+0.043%/°C					
Temperature-Coefficient Voc	-0.24%/°C					
Temperature-Coefficient Pmpp	-0.30%/°C					
Operating Temperature	-40°C...+85°C					
Normal Operating Cell Temperature	45±2°C					
Load Capacity For The Cover Of The Module (Glass)	5400Pa(IEC61215)(snow)					
Load Capacity For The Front & Back Of The Module	2400Pa(IEC61215)(wind)					

144HC BNPI (1000w/m² + 135w/m²)

Module Type: TPC Pro-72HCDG	575M	580M	585M	590M	595M	600M
Maximum Power(Wp)	633W	638W	644W	649W	654W	659W
Open Circuit Voltage(Voc)	52.45V	52.60V	52.75V	52.90V	53.05V	53.20V
Short Circuit Current(Isc)	15.20A	15.28A	15.35A	15.43A	15.49A	15.55A
Maximum Power Voltage(Vm)	43.72V	43.85V	44.02V	44.12V	44.28V	44.44V
Maximum Power Current(Im)	14.48A	14.55A	14.63A	14.71A	14.77A	14.83A

144HC BSI (1000w/m² + 300w/m²)

Module Type: TPC Pro-72HCDG	575M	580M	585M	590M	595M	600M
Maximum Power(Wp)	708W	714W	720W	726W	732W	738W
Open Circuit Voltage(Voc)	52.45V	52.60V	52.75V	52.90V	53.05V	53.20V
Short Circuit Current(Isc)	17.00A	17.09A	17.18A	17.26A	17.34A	17.42A
Maximum Power Voltage(Vm)	43.73V	43.86V	44.01V	44.14V	44.29V	44.44V
Maximum Power Current(Im)	16.19A	16.28A	16.36A	16.45A	16.53A	14.61A

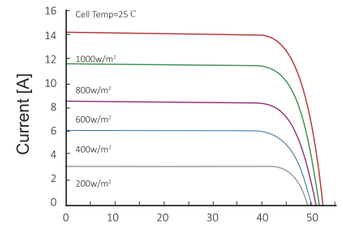
MECHANICAL CHARACTERISTICS

Front/Back Cover (Material / Thickness)	low-iron tempered glass 2.0 / 2.0 mm
Cell (Quantity / Material / Dimensions)	144(6x12x2) / monocrystalline silicon,bifacial
Frame (Material / Color)	aluminum hollow-chamber frame on each side anodized aluminum alloy / silver
Junction Box (Protection Degree)	≥IP68
Cables & Plug Connectors	4mm², 300mm in length,length can be customized
Module Dimensions (L / W / H)	2278x1134x30/35mm
Module Weight	30.5kg / 31kg
Application Class	Class A
Electrical Protection Class	Class II
Fire Safety Class	Class A

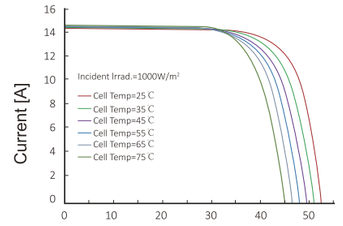
PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurment (mm)	Units/Container (PCS)
40HQ	36 (30mm)	1140	2300x1120x1260	720
	31 (35mm)	1000	2300x1120x1260	620

CURRENT-VOLTAGE CURVES:



Voltage [V]
Module characteristics at constant module temperatures of 25°C and variable levels of irradiance



Voltage [V]
Module characteristics at variable module temperatures and constant module irradiance of 1.000 W/m²

MODULE DIAGRAM: