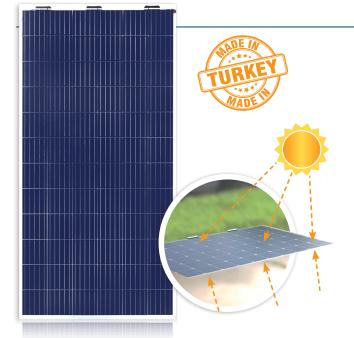


BIFACIAL DUAL GLASS MODULE ULTRA POWER 405W MONO

PERC+ BIFI GG1H-72



GTC is a photovoltaic module producer based in Adıyaman, Turkey. Our automated production line of 135MW has been designed for the assembly of double glass modules, including automatic quality controls at all critical process steps. The new bifacial module developed by our accredited R&D Center maximizes the yield of any power plant at low cost. Another step to reduce LCOE for green energy producers!

The bifacial module can generate electricity from both sides. The backside uses the reflection of the ground depending on its Albedo factor and all potential diffused lights from the environment.

The module can be used in various applications like carport, fixed ground mount, trackers, rooftops, floating, sun breakers and more. The PV panel has been developed to resist to harsh environmental conditions beyond IEC standards (6X technology), such as salt mist.

MADE ACCORDING TO

IEC 61215, IEC 61730-1, IEC 61730-2, IEC Extended Tests DH6000, HF60, TC1200 TSE EN 61701 Salt Mist Corrosion Test - Severity 6 ISO 9001:2015 ISO 14001:2015 OHSAS 18001:2007





OPTIMIZED YIELD

385 - 405W Front Side (STC)
20.38% efficiency
Bifacial boost up to 30%, depending on Albedo
6X Durability Technology
Excellent low light performance
Better performance in hot climate



EXTREME ROBUST DESIGN

Double-Glass Portable Frame Design Up to 50 years Service Time Perfect to reduce LCOE Fire Safe Class AA 100% PID free



GUARANTEED PERFORMANCE

84% power output after 30th year 12 years product warranty



INSTALLATION OPTIMIZATION Grounding free

Reduce space Reduce BOS

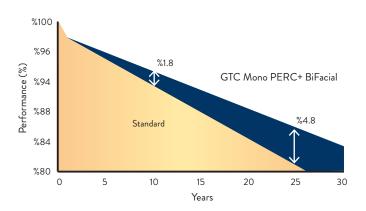


O&M COST REDUCTION

Portable frame design, no dust/snow collection Better self cleaning



SUPERIOR AESTHETICS Glass/Glass portable frame Transparent on request



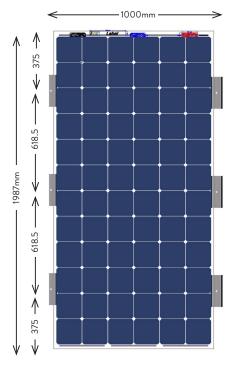
ENGINEERED AND MADE IN TURKEY

www.gtctrade.com - sales@gtctrade.com +90 416 290 35 35 / +90 216 370 52 16

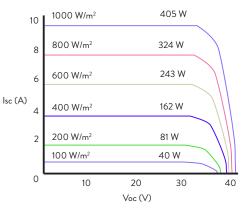


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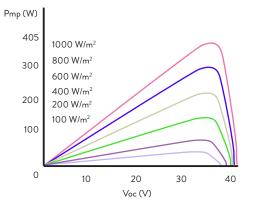
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I-V CURVE (PV MODULE 405W)



P-V CURVE (PV MODULE 405W)



ELECTRICAL PERFORMANCE

Max. Power P _{max} (W)	385	390	395	400	405
Max. Power Voltage VMPP (V)	40.01	40.41	40.81	41.20	41.59
Max. Power Current IMPP (A)	9.63	9.65	9.68	9.71	9.74
Open-Circuit Voltage Voc (V)	48.74	49.41	49.41	49.63	49.85
Short-Circuit Current Isc (A)	10.26	10.31	10.31	10.34	10.37
Performance nm (%)	19.38	19.63	19.88	20.13	20.38

Standard Test Conditions (STC); 1000 W/m2, AM1.5, 25 °C, Power Tolerance (W) +/- 3%

BOOST FROM THE BACKSIDE

+7%	Power (W)	412	417	423	428	433
	Performance (%)	20.73	21.00	21.27	21.54	21.81
+15%	Power (W) Performance (%)	443	449	454	460	466
	Performance (%)	22.28	22.57	22.86	23.15	23.44

Bifacialty depends on Albedo

ELECTRICAL PARAMETERS AT NOMINAL OPERATING CELL TEMPERATURE (NOCT)

Power Output PMAX (W)	310	314	318	322	326
Max. Power Voltage VMMP (V)	39.42	39.8	40.16	40.51	40.81
Max. Power Current IMMP (A)	7.87	7.89	7.92	7.95	7.99
Open-Circuit Voltage Voc (V)	48.83	49.13	49.43	49.73	50.03
Short-Circuit Current Isc (A)	8.16	8.22	8.28	8.34	8.40

NOCT: open-circuit module operation temperature at 800W/m2 irradiance, $20^\circ C$ ambient temperature, 1m/s wind speed

OPERATING CONDITIONS

TEMP. CHARACTERISTICS

Operating Temperature	-40°C/+85°C	Temp. coefficient PMAX	-0.38%/K
Max. System Voltage	1000V	Temp. coefficient Voc	-0.29%/K
Max. Series Fuse Rating	20A	Temp. coefficient Isc	0.04%/K
Wind Load	2400 Pa	Nominal Operating	46°C
Snow Load	5400 Pa	Temperature (NOCT)	

MATERIAL SPECIFICATION

Front Cover	2.5mm ARC Low Iron Tempered Solar Glass
Cell Type	Bifacial Mono PERC
Cell Matrix	72 Cells (6 x 12)
Lamination material	EVA
Back Glass	2.5 mm ARC Low Iron Tempered Solar Glass
Junction Box	IP67 rated, 1500V Compatible, 3 Diodes
Cables and connectors	DC Cable 4 mm ² MC4 compatible, 1500 V Cable length 15cm male - 40cm female
Frame	Portable Frame
Module Dimensions	1987 mm x 1000 mm x 6 mm (without J-box)
Module Weight	28.7 kg
Module Per Box	30
Box per Truck	24

ENGINEERED AND MADE IN TURKEY

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