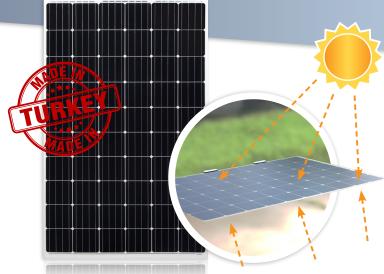




BIFACIAL DUAL GLASS MODULE

ULTRA POWER 300W MONO PERC+ BIFLGG1H-60



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, ammonia, and sulfur dioxide.

MADE ACCORDING TO

IEC 61215: 2005 2 nd Ed IEC 61730 -01, IEC 61730-02 IEC Extended Tests DH6000, HF60, TC1200 Salt mist, ammonia, sulfur dioxide SO₂ ISO 9001 ISO 14001 **OHSAS 18001**











OPTIMIZED YIELD

290 – 310W Front Side (STC) %18.9 efficiency Bifacial boost up to 30%, depending on Albedo Technology 6X Excellent low light performance



EXTREME ROBUST DESIGN

Better performance in hot climate

Double-Glass Frameless 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 10 years product warranty



INSTALLATION OPTIMIZATION

1500 V — Longer String Grounding free Reduce space Reduce BOS Light model 15,19 kg/m²



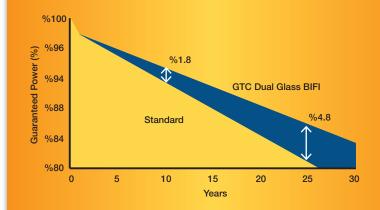
0&M COST REDUCTION

Frameless design, no dust/snow collection Better self cleaning



SUPERIOR AESTHETICS

Glass/Glass frameless 10% module transparency

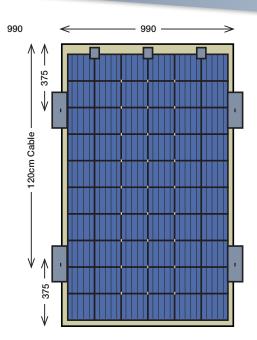




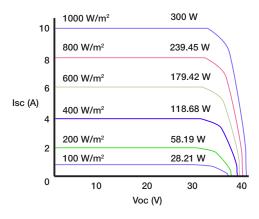


BIFACIAL DUAL GLASS MODULE

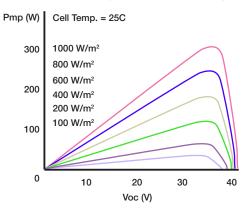
ULTRA POWER 300W MONO PERC+ BIFI GG1H-60



I-V CURVE (PV MODULE 300W)



P-V CURVE (PV MODULE 300W)



ELECTRICAL PERFORMANCE

Nominal Power Pmax (W)	290	295	300	305	310
Nominal Power Voltage VMPP (V)	30.98	31.32	31.72	32.00	32.39
Nominal Power Current IMPP (A)	9.36	9.42	9.48	9.53	9.59
Open-Circuit Voltage Voc (V)	39.14	39.44	39.80	40.05	40.39
Open-Circuit Current Isc (A)	9.38	9.47	9.56	9.64	9.73
Performance nm (%)	17.63	17.93	18.28	18.53	18.88

Standard Test Conditions (STC); 1000 W/m2, AM1.5, 25 $^{\circ}$ C, Power Measuring Output tolerance (W) +/- 3%

BOOST FROM THE BACKSIDE

. 70/	Power (W)	310	316	322	326	332
T// ₀	Power (W) Performance (%)	18.86	19.19	19.55	19.83	20.2
.45%	Power (W) Performance (%)	333	338	344	351	356
+13%	Performance (%)	20.27	20.62	21.02	21.31	21.71

Bifacialty depends on Albedo

ELECTRICAL PARAMETERS AT NOMINAL OPERATING CELL TEMP.

Power Output PMAX (W)	233	237	241	245	249
Nominal Power Voltage VMMP (V)	30.70	31.04	31.43	31.72	32.10
Nominal Power Current IMMP (A)	7.50	7.55	7.59	7.63	7.68
Open-Circuit Voltage Voc (V)	38.79	39.09	39.44	39.69	40.03
Open-Circuit Current Isc (A)	7.51	7.58	7.66	7.72	7.79

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

OPERATING CONDITIONS

Operating Temperature	-40°C/+85°C
Max. System Voltage	1500V
Max. Series Fuse Rating	20A
Wind Load	2400 Pa
Snow Load	7000 Pa

TEMP. CHARACTERISTICS

Temp. coefficient PMAX	-0.38%/K
Temp. coefficient Voc	-0.29%/K
Temp. coefficient Isc	0.04%/K
Nominal Operating Temperature (NOCT)	46°C

MATERIAL SPECIFICATION

Front Cover	2mm ARC ARC Low Iron Tempered Solar Glass
Cell Type	4BB M2 p-type Bifacial Mono PERC
Cell Matrix	60 (6 strings x 10 cells)
Lamination material	EVA
Back Glass	3 mm transparent glass
Junction Box	IP67 rated, 1500V Compatible, 3 Diodes
Cables and connectors	DC Cable 4 mm ² MC4 compatible, 1500 V
	Cable length 120 cm
Frame	Frameless
Module Dimensions	1662 mm x 990 mm x 6 mm (without J-box)
Module Weight	25 kg
Module Per Box	30
Box per Container	20 (600 Modules)
Box per Truck	23 (690 Modules)