

## DOUBLE-GLASS MODULE

Ultra Power PV Mono PERC

GTC GG1H 310W



### OPTIMIZED YIELD

18.84 % Module Efficiency  
Excellent low light performance  
Better performance in hot climate



### EXTREME ROBUST DESIGN

Double-Glass Frameless Design  
Longer Service Time  
No moisture Penetration  
Fire safe Class AA  
PID free



### GUARANTEED PERFORMANCE

First year, annual degradation 2 %,  
each subsequent year 0.4 %.  
85% power output at year 30  
10 years product warranty  
6x IEC extended reliability test



### INSTALLATION OPTIMIZATION

1500 V – Longer String  
Grounding free  
Light model 19,8 kg



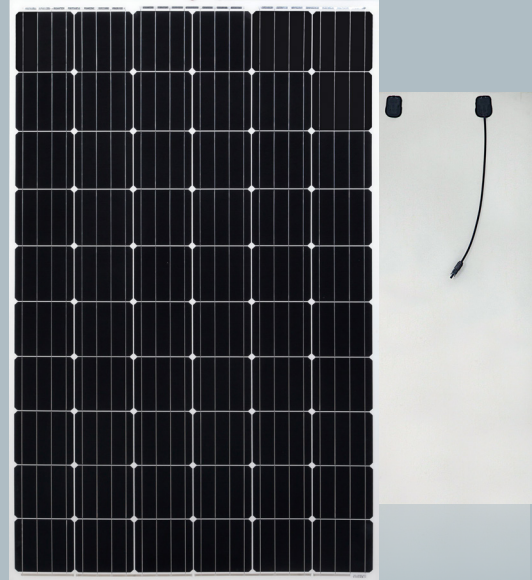
### O&M COST REDUCTION

Frameless Design  
Better Self-cleaning



### SUPERIOR AESTHETICS

Glass/glass Frameless  
Transparent on Request



**GTC** is a photovoltaic module manufacturer based in Adiyaman, Turkey. Our production line has been designed for the assembly of glass-glass modules, including automatic quality controls at all critical process steps. The semi-automatic line gives us the flexibility to produce not only our own design temperature resistant modules with top performing parts but also to custom make different module designs for BIPV and OEM projects

### CERTIFICATION

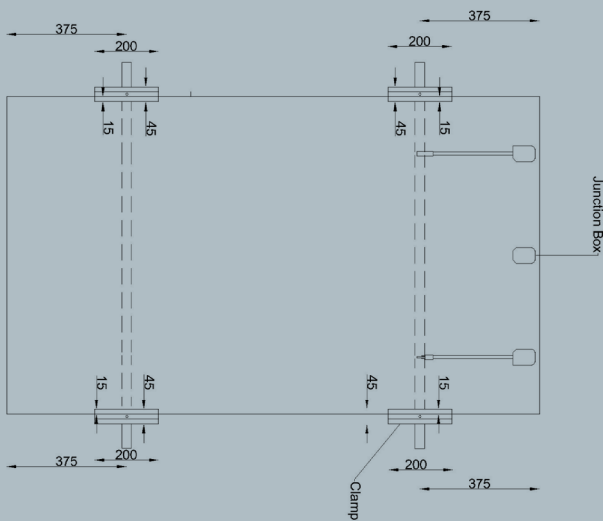
IIEC 61215: 2005 2<sup>nd</sup> Ed  
IEC 61730 -01, IEC 61730-02  
IEC Extended Tests DH6000, HF60, TC1200



## ELECTRICAL PERFORMANCE

Nominal Power (Pmax) (W)	290	295	300	305	310
Nominal Power Voltage (Vmp)	32.077	32.366	32.771	32.955	33.207
Nominal Power Current (Imp)	9.041	9.114	9.154	9.255	9.335
Open-Circuit Voltage (Voc)	39.560	39.679	39.857	39.980	40.108
Open-Circuit Current (Isc)	9.520	9.655	9.775	9.907	10.038

Standard Test Conditions (STC); 1000 W/m<sup>2</sup>, AM1.5, 25 °C, Power Measuring Output Tolerances (W) ±3%



## TEMPERATURE CHARACTERISTICS

Temperature coefficient of Pmax (%/C)	-0.38
Temperature coefficient of Voc (%/C)	-0.27
Temperature coefficient of Isc (%/C)	0.04
Normal Operating Temperature (NOCT)	46°C

## OPERATING CONDITIONS

Operating Temperature	-40°C/+85°C
Maximum System Voltage	1500V
Maximum Series Fuse Rating	20A
Maximum Static Load (Front / Back)	2400Pa

## MATERIAL SPECIFICATIONS

Front Cover	2 mm Low Iron Tempered Solar Safety Glass
Cell Type	PERC Mono-Crystalline High Efficiency
Cell Quantity	60 (6x10 Matrix)
Lamination Material	EVA (White at the back, transparent on request)
Back Cover	2 mm Tempered Glass
Junction Box	IP67 Rated, 1500V Compatible, 3 Diodes
Plug Connector	MC4 compatible
Output cables	4mm
Module Dimensions	1662 mm x 990 mm x 5 mm (without J-box)
Module Weight	19.8 kg
Panel Per Box	26
Box Per Container	24