

## TG Black 400–410

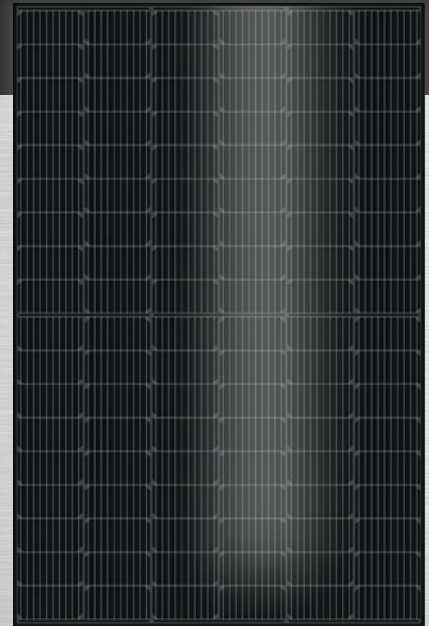
Monocrystalline Halfcut Module

### Features of Module

- Ultra low performance degradation
- Maximum power up to 410 Wp
- High module quality ensure long-term reliability
- Engineered in Austria, Europe

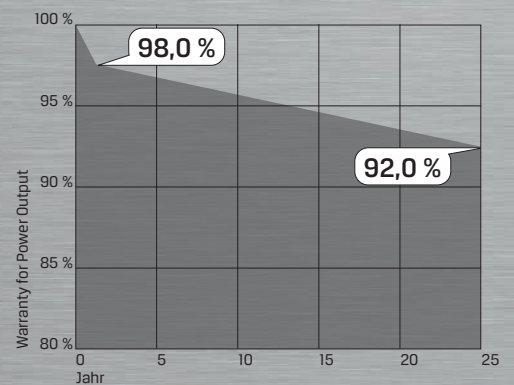
### Product and Linear Power Output Warranty

**25/25** 25-year Product Warranty  
25-year Warranty for linear Output



### Linear Power Output Warranty

1st Year <2%, Annual Degradation -0,25%



### Electrical Characteristics

	STC	NMOT	STC	NMOT	STC	NMOT
Type	400		405		410	
Maximum power $P_{Max}$ [Wp]	400	302.8	405	302.8	410	310.3
Open circuit voltage $V_{OC}$ [V]	36.78	28.76	36.93	28.76	37.08	29.04
MPP voltage $V_{MPP}$ [V]	31.01	10.52	31.16	10.52	31.31	10.68
MPP current $I_{MPP}$ [A]	12.90	34.72	13.00	34.72	13.09	35.00
Short circuit current $I_{SC}$ [A]	13.52	10.82	13.61	10.82	13.70	10.97
Module efficiency $\eta_{Modul}$ [%]	20.5		20.7		21.0	
Performance sorting [Wp]			$\geq +5$			

These measurements are valid under standard test conditions STC. All electrical data  $\pm 10\%$ . Measurement uncertainty PMPP (PMax): +/- 3%, (Airmass AM 1.5; radiation of 1000W/m<sup>2</sup>; cell temperature 25°C)

NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, wind speed 1 m/s. All technical data +/- 10 %

### Temperature Coefficient (Tc)

Temperature Coefficient of $P_{max}$ (%/°C)	-0.35
Temperature Coefficient of $V_{OC}$ (%/°C)	-0,27
Temperature Coefficient of $I_{SC}$ (%/°C)	+0,045
NOCT (°C)	44±2

### Maximum Ratings

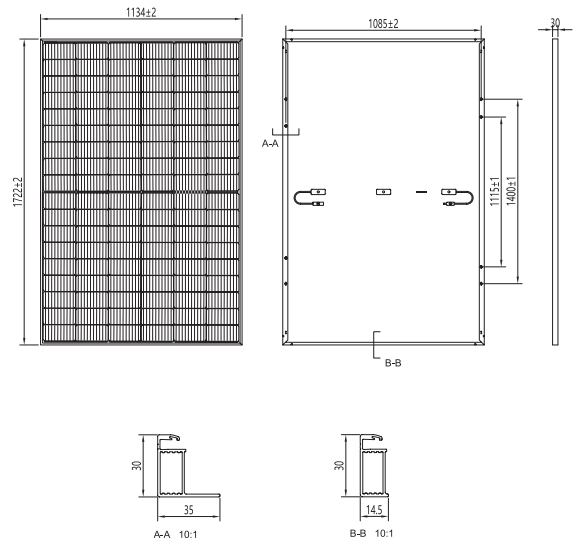
Operational Temperature (°C)	-40~+85
Maximum System Voltage (V DC)	1500
Max Series Fuse Rating (A)	25
Power Tolerance - Pmax (W)	0~+5

### Mechanical Data

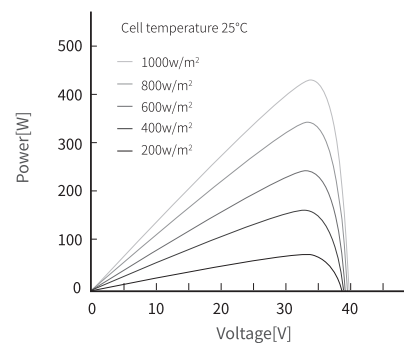
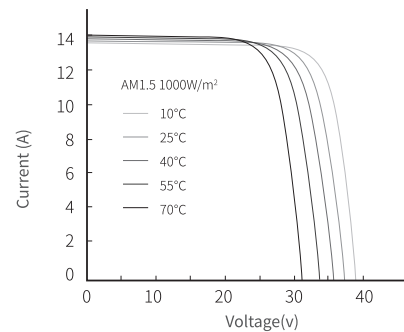
Solar Cells	Monocrystalline
No. of Cells	108 (6x18)
Module Dimensions	1722 (±2) x 1134 (±2) x 30
Weight	20,5 kg
Glass	3,2 mm, High Transmission, AR Coated Heat Strengthened Glass
Backsheet	Black
Frame	Anodized Aluminium Alloy
J-Box	IP 68 rated, Three Diodes
Cables	4,0 mm <sup>2</sup> , Portrait 280/280 mm
Connector	Original MC4
Wind/ Snow Load	2400 Pa/ 5400 Pa
Modules per Box	36 pcs per pallet
Packaging	936 per 40'HC

Your Dealer:

### Drawings



### I-V-Curve



Statement:

With technological progress and product updates, there may be deviations between the technical parameters of Trigoo's module products and the technical parameters contained in this specification. Trigoo Solar Technologies has the right to adjust the technical parameters at any time without notifying the customers, the final interpretation of the technical specification is vested in Trigoo Solar Technologies.

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