

TP-700-GG 675-700W

N-Type TOPCon-132cell-G12 Dual Glass
Maximum Efficiency 22.5%
Positive Power Tolerance 0~+5W

10-30% Additional Power Generation

30 years lifespan brings 10-30% additional power generation

Zero LID

N-type solar cell has no LID naturally which can increase power generation

Lower LCOE

Up to 25% more power generation in bifacial type (depending on Albedo)

Better Weak Light Performance

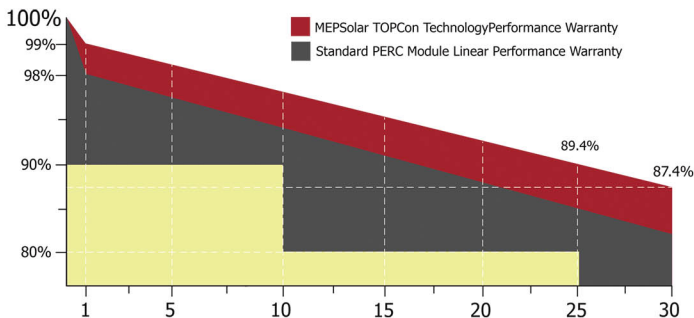
Higher power output even under low-light environment like on cloudy or foggy days

Lower Temperature Coefficient

Better performance of the solar panel in higher temperature environment or hot days

More Weather Resistance

Resistant to harsh environment such as salt, ammonia, sand, high temperature and high humidity



Product & System Certificates

IEC61215/IEC61730

ISO9001 : Quality Management System

ISO14001 : Environment Management System



Mana Energy Pak

Address: Unit 5, No.4, Jamishidi st, Saadat Abad Blvd, Tehran, IRAN

TEL: +98 - 21 79157000 WEB: www.manaenergypak.com EMAIL: info@manaenergypak.com

Electrical Specification (STC) - Front Side

STC: AM1.5 1000W/m² 25°C [Test Uncertainty: ±3%]

Model	TP-700-GG 675	TP-700-GG 680	TP-700-GG 685	TP-700-GG 690	TP-700-GG 695	TP-700-GG 700
Max Power P _{mp} [W]	675	680	685	690	695	700
Max Power Voltage V _{mp} [V]	38.6	38.8	39.0	39.2	39.4	39.5
Max Power Current I _{mp} [A]	17.50	17.54	17.58	17.62	17.66	17.73
Open Circuit Voltage V _{oc} [V]	46.2	46.4	46.6	46.8	47.0	47.1
Short Circuit Current I _{sc} [A]	18.57	18.62	18.67	18.72	18.79	18.82
Efficiency [%]	21.7	21.9	21.0	22.2	22.4	22.5

*Positive Power Tolerance 0~+5W

Electrical Specification (NMOT) - Front Side

NMOT: 800W/m² 20°C 1m/s [Test Uncertainty: ±3%]

Max Power P _{mp} [W]	510	514	518	521	525	528
Max Power Voltage V _{mp} [V]	36.2	36.4	36.6	36.7	36.9	37.0
Max Power Current I _{mp} [A]	14.11	14.14	14.17	14.21	14.24	14.29
Open Circuit Voltage V _{oc} [V]	44.2	44.3	44.5	44.7	44.9	45.0
Short Circuit Current I _{sc} [A]	15.01	15.05	15.09	15.13	15.15	15.17

Bifaciality Power Generation Gain (Regarding 700W as an example)

Power Gain [%]	0	5	10	15	20	25
Max Power P _{mp} [W]	700	735	770	805	840	875
Max Power Voltage V _{mp} [V]	39.50	39.60	39.60	39.60	39.70	39.70
Max Power Current I _{mp} [A]	17.73	18.56	19.44	20.33	21.16	22.04
Open Circuit Voltage V _{oc} [V]	47.10	47.20	47.20	47.20	47.30	47.30
Short Circuit Current I _{sc} [A]	18.82	19.68	21.54	21.41	22.27	23.13

Mechanical Data

Solar Cell	N-Type 210mm x 105mm - [12x11]
Module Dimension	2384x1302x30 mm
Weight	38kg
Front Cover	Glass - 2mm Semi Tempered AR Coated
Back Cover	Glass - 2mm Semi Tempered
Frame	Silver - Anodized Aluminium Alloy
Junction Box	IP68 Rated - 3 Bypass Diodes
Cable	4.0m ² - 300mm

Temperature Ratings

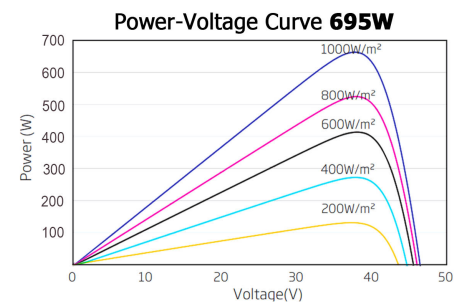
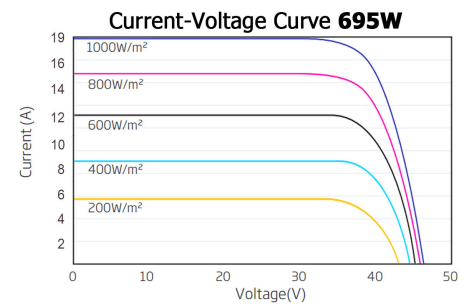
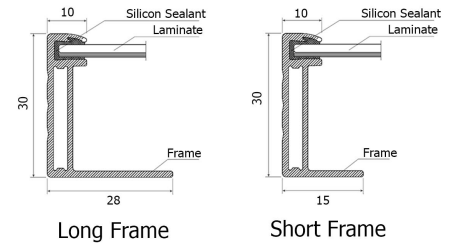
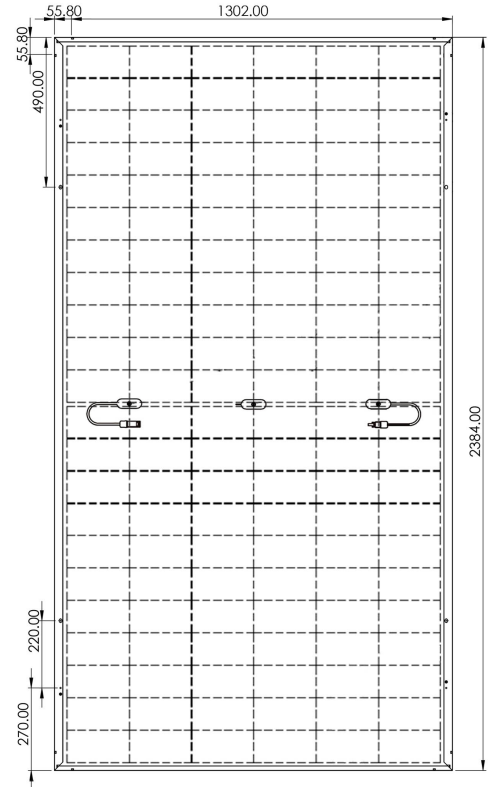
Temperature Coefficient	I _{sc}	α	[%/°C]	+0.046
Temperature Coefficient	V _{oc}	β	[%/°C]	-0.25
Temperature Coefficient	P _{max}	γ	[%/°C]	-0.30
Nominal Module Operating Temperature	NMOT		[°C]	43 ± 2

Operating Properties

Max System Voltage	1500V
Max System Fuse Rating	30 A
Operational Temperature	-40 to 85 °C
Bifaciality Tolerance	±5%
Bifaciality = P _{maxrear} (STC)/P _{maxfront} (STC)	80%

Packaging Information

# Module per Pallet	35
# Pallet per 45'HC Container	12
# Pallet per 40'HC Container	10
# PCs per Container 40'HC	350
Pallet Weight (kg)	1335



Caution:

To operate, install and manage MEPSOLAR's modules, read the installation manual and use carefully.

Observations:

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