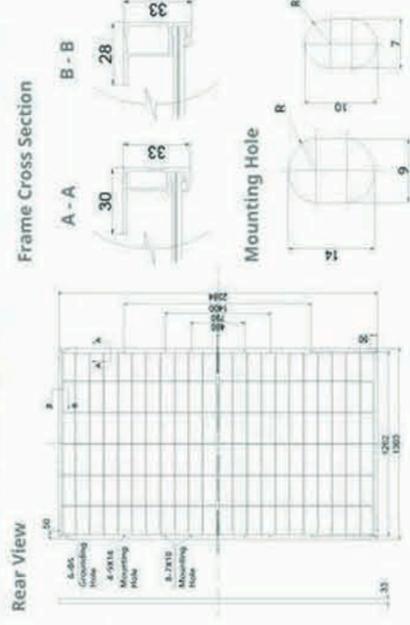
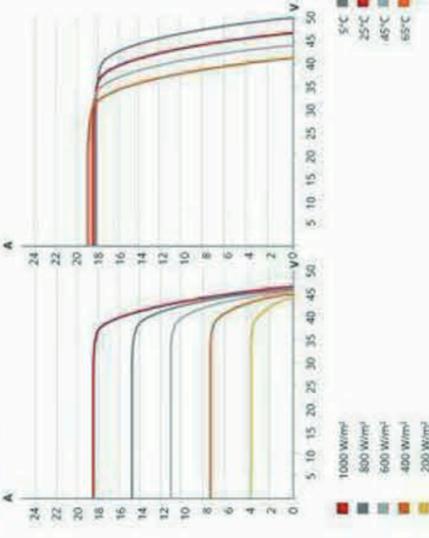


ENGINEERING DRAWING (mm)



I-V CURVES



ELECTRICAL DATA | STC*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)	Module Efficiency
VE-675	675 W	39.0 V	17.31 A	46.9 V	18.24 A	21.7%
Bifacial Gain**	5% 705 W	39.0 V	18.19 A	46.9 V	19.15 A	22.8%
	10% 743 W	39.0 V	19.04 A	46.9 V	20.06 A	23.9%
	20% 810 W	39.0 V	20.77 A	46.9 V	21.89 A	26.1%
VE-680	680 W	39.2 V	17.35 A	47.1 V	18.29 A	21.9%
Bifacial Gain**	5% 714 W	39.2 V	18.22 A	47.1 V	19.20 A	23.0%
	10% 748 W	39.2 V	19.09 A	47.1 V	20.12 A	24.1%
	20% 816 W	39.2 V	20.82 A	47.1 V	21.95 A	26.3%
VE-685	685 W	39.4 V	17.39 A	47.3 V	18.34 A	22.1%
Bifacial Gain**	5% 719 W	39.4 V	18.26 A	47.3 V	19.26 A	23.1%
	10% 754 W	39.4 V	19.14 A	47.3 V	20.17 A	24.3%
	20% 822 W	39.4 V	20.87 A	47.3 V	22.01 A	26.5%
VE-690	690 W	39.6 V	17.43 A	47.5 V	18.39 A	22.2%
Bifacial Gain**	5% 725 W	39.6 V	18.31 A	47.5 V	19.31 A	23.3%
	10% 759 W	39.6 V	19.17 A	47.5 V	20.23 A	24.4%
	20% 828 W	39.6 V	20.92 A	47.5 V	22.07 A	26.7%
VE-695	695 W	39.8 V	17.47 A	47.7 V	18.44 A	22.4%
Bifacial Gain**	5% 730 W	39.8 V	18.34 A	47.7 V	19.36 A	23.5%
	10% 765 W	39.8 V	19.18 A	47.7 V	20.28 A	24.6%
	20% 834 W	39.8 V	20.96 A	47.7 V	22.13 A	26.8%
VE-700	700 W	40.0 V	17.51 A	47.9 V	18.49 A	22.5%
Bifacial Gain**	5% 735 W	40.0 V	18.39 A	47.9 V	19.41 A	23.7%
	10% 770 W	40.0 V	19.22 A	47.9 V	20.34 A	24.8%
	20% 840 W	40.0 V	21.01 A	47.9 V	22.19 A	27.0%
VE-705	705 W	40.2 V	17.55 A	48.1 V	18.54 A	22.7%
Bifacial Gain**	5% 740 W	40.2 V	18.43 A	48.1 V	19.47 A	23.8%
	10% 776 W	40.2 V	19.27 A	48.1 V	20.39 A	25.0%
	20% 846 W	40.2 V	21.06 A	48.1 V	22.25 A	27.2%

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.
 ** Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

ELECTRICAL DATA | NMOT*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
VE-675	510 W	36.9 V	13.84 A	44.4 V	14.71 A
VE-680	514 W	37.1 V	13.88 A	44.6 V	14.75 A
VE-685	518 W	37.2 V	13.91 A	44.8 V	14.79 A
VE-690	522 W	37.4 V	13.94 A	45.0 V	14.83 A
VE-695	526 W	37.6 V	13.97 A	45.2 V	14.87 A
VE-700	529 W	37.8 V	14.00 A	45.4 V	14.91 A
VE-705	533 W	38.0 V	14.03 A	45.5 V	14.95 A

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

MECHANICAL DATA

Specification	Data
Cell Type	TOPCon cells
No. of cells	132 [2 x (11 x 6)]
Dimension(mm)	2384 x 1303 x 33 mm (93.9 x 51.3 x 1.30 in)
Weight	37.8 kg (83.3 lbs)
Front Glass	2.0 mm heat strengthened glass with anti-reflective coating
Back Glass	2.0 mm heat strengthened glass
Frame	Anodized aluminium alloy
J-Box	IP68, 3 bypass diodes
Cable Length (Including Connector)	4.0 mm ² (IEC), 12 AWG (UL) customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	33 pieces
Per Container (40' HQ)	594 pieces or 495 pieces

ELECTRICAL DATA

Specification	Data
Operating Temperature	-40°C ~ +85°C
Max. System Voltage	1500 V (IEC/UL) or 1000 V (IEC/UL)
Module Fire Performance	TYPE 29 (UL 61730) or CLASS C (IEC61730)
Max. Series Fuse Rating	35 A
Application Classification	Class A
Power Tolerance	0 ~ +10 W
Power Bifaciality*	80 %
* Power Bifaciality = P _{max,back} / P _{max,front} , both P _{max,back} and P _{max,front} are tested under STC. Bifaciality Tolerance: ± 5 %	

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.29 % / °C
Temperature Coefficient (Voc)	-0.25 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 ± 3°C

N-type Bifacial TOPCon

VE-675~705-66M

675~705W

- High Efficiency
- Lower temperature coefficient increases energy yield in hot climate
- Excellent anti-LeTID & anti-PID performance. Low power degradation, high energy yield
- Up to 85% Power Bifaciality, more power from the back side
- Lower LCOE & system cost
- Minimizes micro-crack impacts
- Heavy snow load up to 5400 Pa, wind load up to 2400 Pa*

WARRANTY

12 YEARS
Guarantee on product material and workmanship

30 YEARS
Linear power output warranty

CERTIFICATION

CE, ISO, Intertek

- ISO 9001: 2015/quality management system
- ISO 14001: 2015/environment management system
- ISO 45001: 2018/occupation health safety management system