

N-type Bifacial TOPCon

VE-600~ 630W-66M

600~630W

- 630 W** Module power up to 630 W
Module efficiency up to 23.3 %
- EXTRA POWER** Up to 85% Power Bifaciality, more power from the back side
- \$** Lower LCOE & system cost
- Lower temperature coefficient (Pmax): -0.29%/°C,** increases energy yield in hot climate
- Minimizes micro-crack impacts**
- Excellent anti-LeTID & anti-PID performance.** Low power degradation, high energy yield
- Heavy snow load up to 5400 Pa,** wind load up to 2400 Pa*

WARRANTY

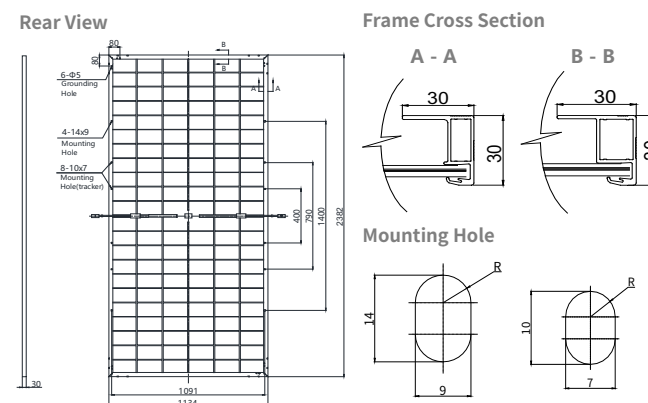
12 YEARS Guarantee on product material and workmanship

30 YEARS Linear power output warranty

CERTIFICATION



ENGINEERING DRAWING (mm)



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-600	600 W	40.4 V	14.86 A	47.6 V	15.85 A	22.2%
Bifacial Gain**	5% 630 W	40.4 V	15.60 A	47.6 V	16.64 A	23.3%
	10% 660 W	40.4 V	16.35 A	47.6 V	17.44 A	24.4%
	20% 720 W	40.4 V	17.83 A	47.6 V	19.02 A	26.7%
VE-605	605 W	40.6 V	14.91 A	47.8 V	15.91 A	22.4%
Bifacial Gain**	5% 635 W	40.6 V	15.66 A	47.8 V	16.71 A	23.5%
	10% 666 W	40.6 V	16.40 A	47.8 V	17.50 A	24.7%
	20% 726 W	40.6 V	17.89 A	47.8 V	19.09 A	26.9%
VE-610	610 W	40.8 V	14.96 A	48.0 V	15.97 A	22.6%
Bifacial Gain**	5% 641 W	40.8 V	15.71 A	48.0 V	16.77 A	23.7%
	10% 671 W	40.8 V	16.46 A	48.0 V	17.57 A	24.8%
	20% 732 W	40.8 V	17.95 A	48.0 V	19.16 A	27.1%
VE-615	615 W	41.0 V	15.01 A	48.2 V	16.02 A	22.8%
Bifacial Gain**	5% 646 W	41.0 V	15.76 A	48.2 V	16.82 A	23.9%
	10% 677 W	41.0 V	16.51 A	48.2 V	17.62 A	25.1%
	20% 738 W	41.0 V	18.01 A	48.2 V	19.22 A	27.3%
VE-620	620 W	41.2 V	15.06 A	48.4 V	16.08 A	23.0%
Bifacial Gain**	5% 651 W	41.2 V	15.81 A	48.4 V	16.88 A	24.1%
	10% 682 W	41.2 V	16.57 A	48.4 V	17.69 A	25.2%
	20% 744 W	41.2 V	18.07 A	48.4 V	19.30 A	27.5%
VE-625	625 W	41.4 V	15.11 A	48.6 V	16.14 A	23.1%
Bifacial Gain**	5% 656 W	41.4 V	15.87 A	48.6 V	16.95 A	24.3%
	10% 688 W	41.4 V	16.62 A	48.6 V	17.75 A	25.5%
	20% 750 W	41.4 V	18.13 A	48.6 V	19.37 A	27.8%
VE-630	630 W	41.6 V	15.16 A	48.8 V	16.20 A	23.3%
Bifacial Gain**	5% 662 W	41.6 V	15.92 A	48.8 V	17.01 A	24.5%
	10% 693 W	41.6 V	16.68 A	48.8 V	17.82 A	25.7%
	20% 756 W	41.6 V	18.19 A	48.8 V	19.44 A	28.0%

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

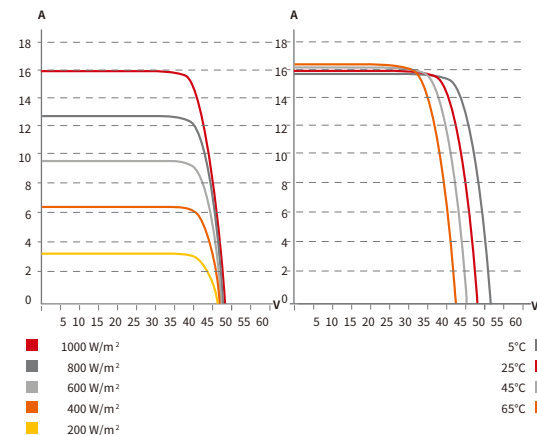
** Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

ELECTRICAL DATA

Operating Temperature	-40°C ~ +85°C
Max. System Voltage	1500 V (IEC/UL)
Module Fire Performance	TYPE 29 (UL 61730) or CLASS C (IEC61730)
Max. Series Fuse Rating	35 A
Protection Class	Class II
Power Tolerance	0 ~ + 10 W
Power Bifaciality*	80 %

* Power Bifaciality = $\frac{P_{max, rear}}{P_{max, front}}$, both $P_{max, rear}$ and $P_{max, front}$ are tested under STC, Bifaciality Tolerance: $\pm 5\%$

CS6.2-66TB-610 / I-V CURVES



ELECTRICAL DATA | NMOT*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
VE-600	454 W	38.2 V	11.88 A	45.1 V	12.78 A
VE-605	458 W	38.4 V	11.92 A	45.3 V	12.83 A
VE-610	461 W	38.6 V	11.96 A	45.4 V	12.88 A
VE-615	465 W	38.8 V	12.00 A	45.6 V	12.92 A
VE-620	469 W	39.0 V	12.04 A	45.8 V	12.97 A
VE-625	473 W	39.1 V	12.08 A	46.0 V	13.02 A
VE-630	476 W	39.3 V	12.11 A	46.2 V	13.06 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
Cell Arrangement	132 [2x (11 x 6)]
Dimensions	2382 x 1134 x 30 mm (93.8 x 44.6 x 1.18 in)
Weight	32.8 kg (72.3 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	4.0 mm ² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	300 mm (11.8 in) (+) / 200 mm (7.9 in) (-) or customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	36 pieces
Per Container (40' HQ)	720 pieces

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 $\pm$ 3°C

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