

N-type TOPCon

VE-570~595-72M

570~595W

- High Efficiency
- Lower LCOE & system cost
- Lower temperature coefficient 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

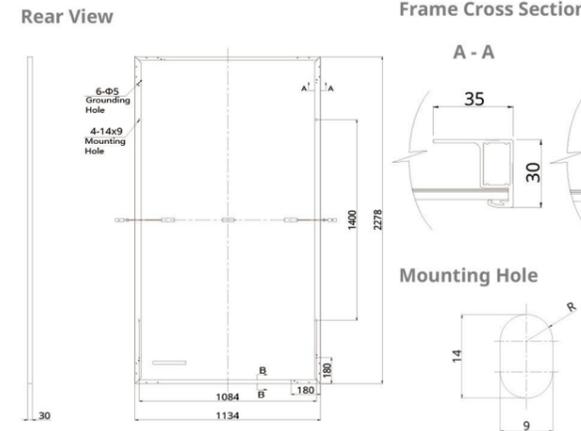
12 YEARS Guarantee on product material and workmanship

30 YEARS Linear power output warranty

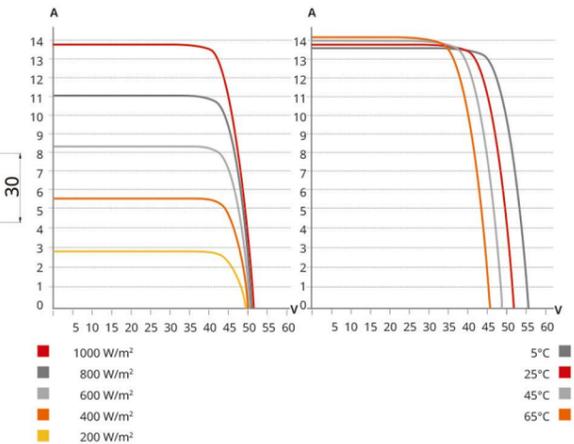
CERTIFICATION

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

ENGINEERING DRAWING (mm)



I-V CURVES



ELECTRICAL DATA | STC*

Module Type	VE-570	VE-575	VE-580	VE-585	VE-590	VE-595
Nominal Max. Power (Pmax)	570 W	575 W	580 W	585 W	590 W	595 W
Opt. Operating Voltage (Vmp)	42.7 V	42.9 V	43.1 V	43.3 V	43.5 V	43.7 V
Opt. Operating Current (Imp)	13.35 A	13.41 A	13.46 A	13.52 A	13.57 A	13.62 A
Open Circuit Voltage (Voc)	51.8 V	52.0 V	52.2 V	52.4 V	52.6 V	52.8 V
Short Circuit Current (Isc)	13.81 A	13.88 A	13.93 A	14.00 A	14.06 A	14.12 A
Module Efficiency	22.1%	22.3%	22.5%	22.6%	22.8%	23.0%
Operating Temperature	-40°C ~ +85°C					
Max. System Voltage	1500V (IEC/UL) or 1000V (IEC/UL)					
Module Fire Performance	TYPE 1 (UL 61730 1500V) or TYPE 2 (UL 61730 1000V) or CLASS C (IEC 61730)					
Max. Series Fuse Rating	25 A					
Application Classification	Class A					
Power Tolerance	0 ~ + 10 W					

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

MECHANICAL DATA

Specification	Data
Cell Type	TOPCon cells
No. of cells	144 [2 x (12 x 6)]
Dimension(mm)	2278 x 1134 x 30 mm (89.7 x 44.6 x 1.18 in)
Weight	27.6 kg (60.8 lbs)
Front Cover	3.2 mm tempered glass with anti-reflective coating
Frame	Anodized aluminium alloy
J-Box	IP68, 3 bypass diodes
Cable	4 mm² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	350 mm (13.8 in) (+) / 250 mm (9.8 in) (-) or customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	35 pieces
Per Container (40' HQ)	700 pieces or 630 pieces

ELECTRICAL DATA | NMOT*

Module Type	VE-431	VE-435	VE-439	VE-443	VE-446	VE-450
Nominal Max. Power (Pmax)	431 W	435 W	439 W	443 W	446 W	450 W
Opt. Operating Voltage (Vmp)	40.4 V	40.6 V	40.7 V	40.9 V	41.1 V	41.3 V
Opt. Operating Current (Imp)	10.68 A	10.72 A	10.77 A	10.81 A	10.85 A	10.89 A
Open Circuit Voltage (Voc)	49.0 V	49.2 V	49.4 V	49.6 V	49.8 V	50.0 V
Short Circuit Current (Isc)	11.14 A	11.19 A	11.23 A	11.29 A	11.34 A	11.39 A

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