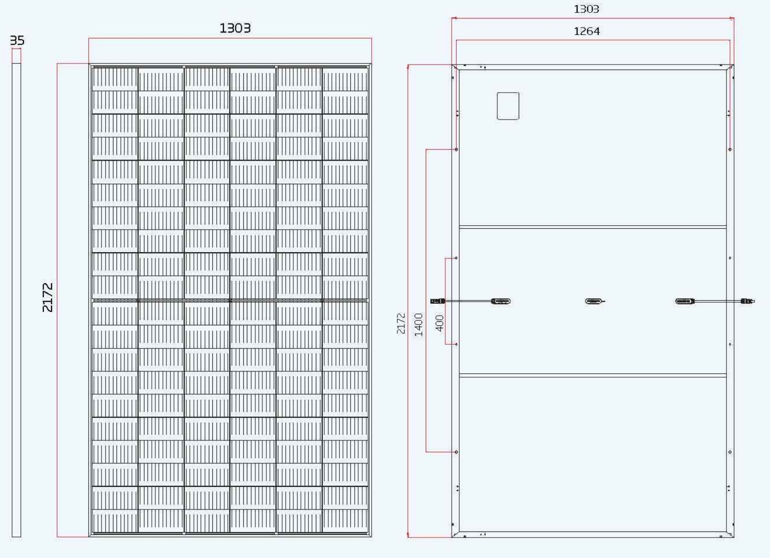
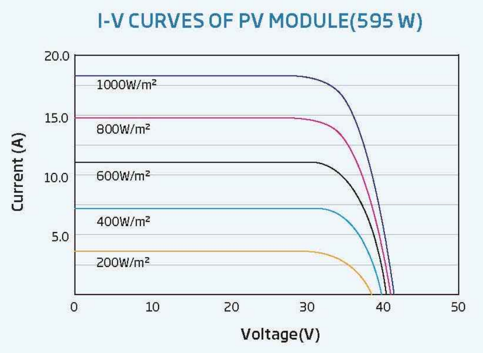
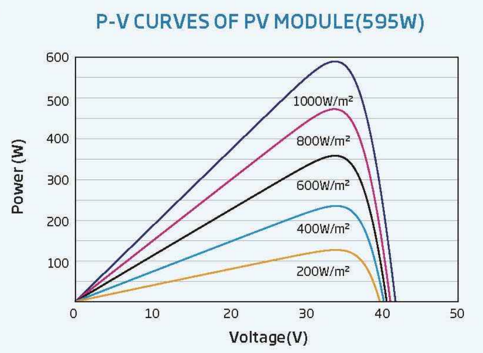
Vertex BACKSHEET MONOCRYSTALLINE MODULE

DIMENSIONS OF PV MODULE(mm)



Front View   Back View





ELECTRICAL DATA (STC)

Peak Power Watts-P_{MAX} (Wp)*	585	590	595	600	605
Power Tolerance-P_{MAX} (W)			0 ~ +5		
Maximum Power Voltage-V_{MPP} (V)	33.8	34.0	34.2	34.4	34.6
Maximum Power Current-I_{MPP} (A)	17.31	17.35	17.40	17.44	17.49
Open Circuit Voltage-V_{OC} (V)	40.9	41.1	41.3	41.5	41.7
Short Circuit Current-I_{SC} (A)	18.37	18.42	18.47	18.52	18.57
Module Efficiency η m (%)	20.7	20.8	21.0	21.2	21.4

STC: Irrdiance 1000W/m2, Cell Temperature 25°C, Air Mass AM1.5. *Measuring tolerance: ±3%.

ELECTRICAL DATA (NOCT)

Maximum Power-P_{MAX} (Wp)	443	447	451	454	458
Maximum Power Voltage-V_{MPP} (V)	31.5	31.7	31.9	32.0	32.2
Maximum Power Current-I_{MPP} (A)	14.05	14.09	14.13	14.18	14.22
Open Circuit Voltage-V_{OC} (V)	38.5	38.7	38.9	39.1	39.3
Short Circuit Current-I_{SC} (A)	14.81	14.85	14.88	14.92	14.96

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

MECHANICAL DATA

Solar Cells	Monocrystalline
No. of cells	120 cells
Module Dimensions	2172×1303×35 mm (85.51×51.30×1.38 inches)
Weight	30.9 kg (68.1 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	EVA
Backsheet	White
Frame	35mm(1.38 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²), Portrait: 280/280 mm(11.02/11.02 inches) Landscape: 1400/1400 mm(55.12/55.12 inches)
Connector	MC4 EVO2 / TS4*

*Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	43°C (±2°C)
Temperature Coefficient of P_{MAX}	- 0.34%/°C
Temperature Coefficient of V_{OC}	- 0.25%/°C
Temperature Coefficient of I_{SC}	0.04%/°C

MAXIMUMRATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC)
	1500V DC (UL)
Max Series Fuse Rating	30A

WARRANTY

12 year Product Workmanship Warranty
25 year Power Warranty
2% first year degradation
0.55% Annual Power Attenuation

(Please refer to product warranty for details)

PACKAGING CONFIGUREATION

Modules per 40' container: 512 pieces

Trinasolar

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

Version number: TSM_EN_2020_PA2

www.trinasolar.com

COMUNE di SAN MARCO IN LAMIS
Provincia di Foggia

PROGETTO
per l'installazione di un impianto fotovoltaico con potenza nominale di 10,0188 MWp con relativa connessione alla RTN

COMMITTENTE	**Sistemi Energetici S.p.A.** Firmato digitalmente da: SALVATORI MARCELLO Data: 26/11/2021 11:54:35
PROGETTO DEFINITIVO	COMUNE: **SAN MARCO IN LAMIS** LOCALITA': **" Posta D'Innanzi"**

Moduli FV

Scala: --	**Data:** 12-07-2021	**Rev:** 01	ELABORATO	**14**
	Codifica: FTV/SMIL/PTO/EL_14			

Progettazione:

SISTEMI ENERGETICI S.p.A.
Via Mario Forcella, 14 - 71121 FOGGIA

Tecnico incaricato:

Ing. Marcello Salvatori