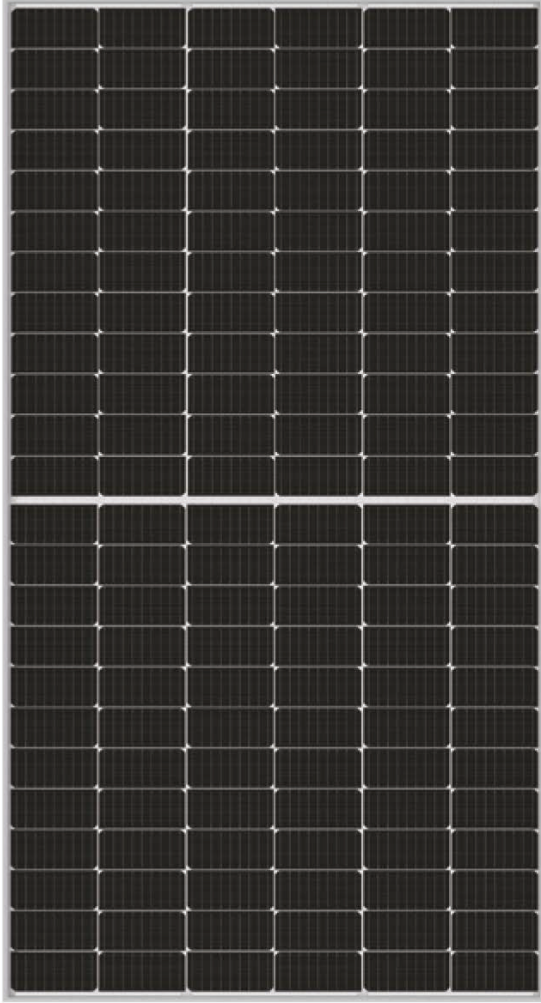


SETsolar®

VOLTA+ SERIES 440W - 455W



9 BUSBAR SOLAR CELL

Higher module efficiency with 9 Busbar solar cell technology



HIGHER OUTPUT POWER

Higher conversion efficiency, more power production per unit area



LOWER TEMPERATURE COEFFICIENT

Less affected by the loss of efficiency caused by high temperature



MAXIMUM SYSTEM VOLTAGE

Contributes to your budget by lowering your installation costs



BETTER LOW LIGHT PERFORMANCE

Produces even when the light is low



POWER TOLERANCE

Positive Power Tolerance **0±5W**

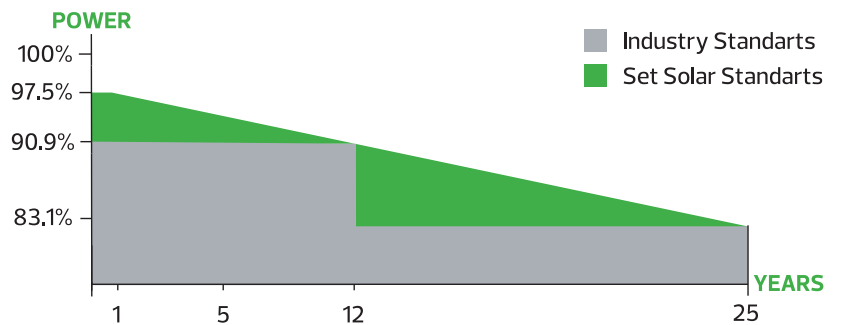
CERTIFICATES



LINEAR PERFORMANCE WARRANTY

*12 Years Product Warranty

*25 Years Linear Power Warranty



📍 Büyükosb Mah. Nevzat Ayaz Bulvarı No:2
Korgun OSB. Korgun Çankırı/TÜRKİYE

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🌐 www.setsolar.com.tr



MECHANICAL CHARACTERISTICS

Cell Type	Mono Crystalline PERC 166x166 mm
No. of Cells	166x83 mm (144 pcs)
Dimensions	2094x1038x40mm (82.44x40.87x1.57 inch)
Weight	24.5kg (54 lbs)
Front Glass	3.2mm, (0.13 inch) Anti Reflective Coating
Frame	Silver Anodized Aluminum Alloy
Junction Box	IP 68 Rated / Original MC4 EVO-2
Output Cables	4mm ² (IEC) / 12 AWG, 1200mm

PACKAGING CONFIGURATION

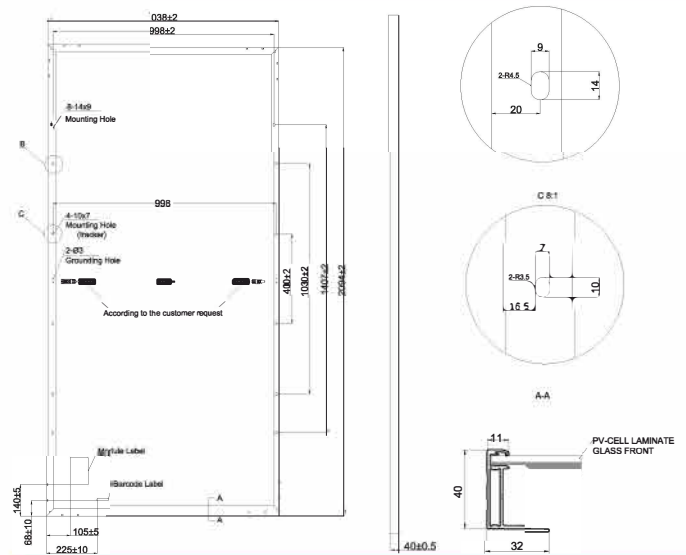
Plastic Corner

22 pcs / pallet, 2 pallets / stack 528 pcs / Truck, 396 pcs / 40 HQ

ABSOLUTE MAXIMUM RATING

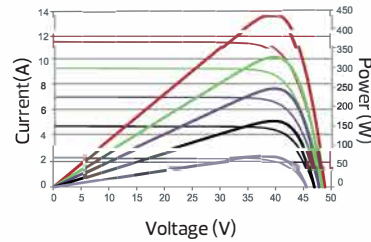
Mechanic Load	6400 Pa (Snow)/ 3600 Pa (Wind)
Maximum Series Fuse Rating	20A
Application Safety Class	II
Fire Rating (IEC61730)	C
Module Fire Performance (UL1703)	Type 1
Hail Diameter @ 80km/h	Up to 25mm

TECHNICAL DRAWING

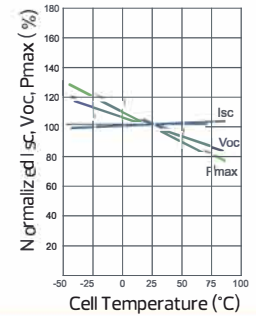


ELECTRICAL CHARACTERISTICS

Current-Voltage & Power-Voltage Curves (445W)



Temperature Dependence of Isc, Voc, Pmax



SPECIFICATIONS

MODEL	SETM144-440		SETM144-445		SETM144-450		SETM144-455	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (Pmpp)	440 Wp	327 Wp	445 Wp	331 Wp	450 Wp	335 Wp	455 Wp	339 Wp
Rated Voltage (Vmpp)	40.97 V	37.89 V	41.17 V	38.10 V	41.37 V	38.31 V	41.57 V	38.52 V
Rated Current (Impp)	10.74 A	8.64 A	10.81 A	8.69 A	10.88 A	8.74 A	10.95 A	8.79 A
Open Circuit Voltage (Voc)	48.87 V	46.03 V	49.07 V	46.22 V	49.27 V	46.41 V	49.47 V	46.60 V
Short Circuit Current (Isc)	11.39 A	9.20 A	11.46 A	9.26 A	11.53 A	9.31 A	11.60 A	9.37 A
Module Efficiency (%)	20.20		20.43		20.66		20.89	
Power Tolerance	0~+5W							
Maximum System Voltage	1000V/1500V DC (IEC)							
Maximum Series Fuse Rating	20A							
Operating Temperature	-40°C to + 85°C							
NOCT (Nominal Operating Cell Temperature)	45°C ± 2°C							
Voltage Temperature Coefficient	-0.254%/°C							
Current Temperature Coefficient	+0.054%/°C							
Power Temperature Coefficient	-0.318%/°C							

*STC 1000W/m², Cell Temperature 25°C, AM=1.5

*NOCT 800 W/m², Ambient Temperature 20°C, AM=1.5 Wind Speed=1m/s

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