



**Shingled Technology**  
 Innovative structure, low-temperature adhesive bonding, high-density layout.

**Beautiful Appearance**  
 Solderless interconnection, uniform appearance, displaying extreme beauty.

# TERRA 5K

## SHINGLED MONOFACIAL MODULE

# TH400~425PMB7

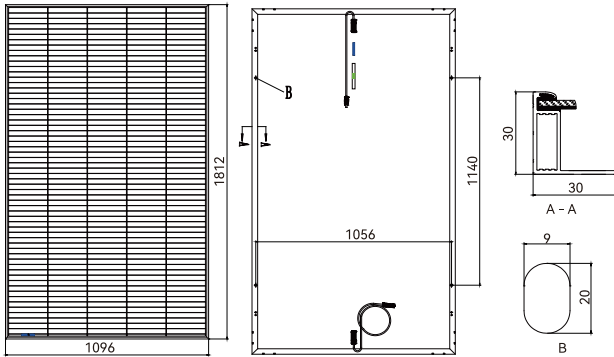
## 44SCF

[www.tw-solar.com](http://www.tw-solar.com)



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**DRAWINGS (Unit: mm)**



**ELECTRICAL CHARACTERISTICS (STC)**

Module Type: TH***PMB7-44SCF	425	420	415	410	405	400
Maximum Power: Pmax [W]	425	420	415	410	405	400
Open Circuit Voltage: Voc [V]	41.7	41.6	41.5	41.4	41.3	41.2
Short Circuit Current: Isc [A]	13.03	12.92	12.80	12.65	12.53	12.41
Voltage at Maximum Power: Vmp [V]	34.6	34.5	34.4	34.4	34.3	34.2
Current at Maximum Power: Imp [A]	12.30	12.19	12.08	11.93	11.82	11.71
Module Efficiency: η [%]	21.4	21.1	20.9	20.6	20.4	20.1

**ELECTRICAL CHARACTERISTICS (NMOT)**

Maximum Power: Pmax [W]	320	316	312	309	305	301
Open Circuit Voltage: Voc [V]	39.8	39.7	39.6	39.5	39.4	39.3
Short Circuit Current: Isc [A]	10.50	10.41	10.31	10.19	10.09	10.00
Voltage at Maximum Power: Vmp [V]	33.0	32.9	32.8	32.8	32.7	32.6
Current at Maximum Power: Imp [A]	9.70	9.62	9.53	9.41	9.33	9.24

1. Standard Test Conditions [STC]: irradiance 1000 W/m<sup>2</sup>; AM 1.5; ambient temperature 25°C according to EN 60904-3;  
 2. Nominal Module Operating Temperature (NMOT): Irradiance 800W/m<sup>2</sup>; wind speed 1m/s, ambient temperature 20°C.  
 3. Tolerance of Pm: 0~+5W. Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%.

**TEMPERATURE PARAMETERS**

NMOT	42.30 °C (±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Pm	-0.34%/°C

**MAXIMUM RATINGS**

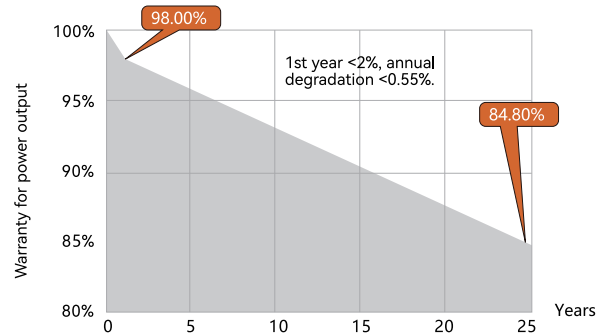
Maximum System Voltage [V]	DC1500 (IEC)
Series Fuse Rating [A]	25
Maximum Surface Load Capacity [Pa]	Front 5400 / Back 2400
Temperature Range [°C]	-40 ~ + 85
Withstanding Hail	Maximum diameter of 25mm with impact speed of 23m/s

**MECHANICAL PARAMETERS**

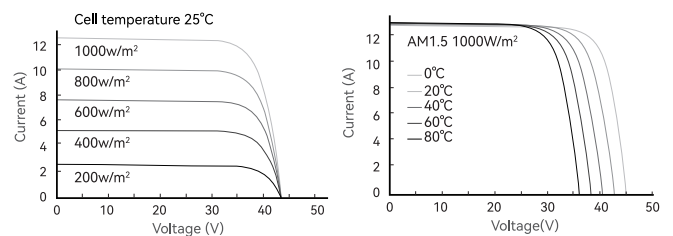
Dimensions	1812 × 1096 × 30mm
Weight	20.8kg±3%
Front glass	tempered glass, 3.2mm
Frame	Anodized aluminum profile
Cells	Mono-crystalline solar cell
Cell Orientation	305 (61 × 5)
Junction Box	IP68, two diodes; Connector : Staubil EVO2
Cable	4mm <sup>2</sup> ;+300mm/-1000mm(Vertical), +220mm/-180mm(Horizontal)
Packaging	924pcs (24pallets: 36pcs/pallet +2 pallets: 30pcs/pallet)

**WARRANTY**

**Linear Power Output Warranty**



**I-V CURVE**



**CERTIFICATIONS**

**Quality Management System and Product Certification**

IEC61215/61730、IEC62804(PID)、IEC61701(Salt)、IEC62716 (Ammonia)、IEC60068-2-68(Sand)  
 ISO 9001:2015 / quality management system  
 ISO 14001:2015 / environmental management system  
 ISO 45001:2018 / occupation health safety management system  
 ISO 50001:2011 / energy management system  
 IEC TS 62941—2016 / PV industry quality management system

