

# LUX7 STM480-54M-T8N

TOPCon

# 460-480W



N

N type topcon cells make extremely low power losses and prevent phenomena LID&LETID.



Excellent low-light power generation effect, ensuring continuous output in cloudy, shading conditions.



Whole process of manufacturing adheres to the green concept, fluorine-free and low-lead.



Minimized micro-cracks with innovative non-destructive cutting Technology.

PID

Selection of packaging materials with excellent sealing More advanced cell processing technology to reduce doping to ensure highly PID resistance.



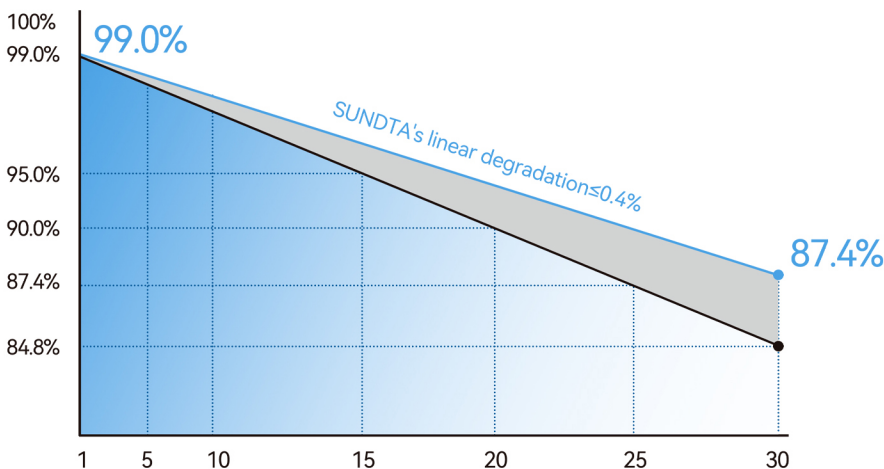
Sand blowing test, salt mist test and ammonia test passed to adapt with harsh environments



Mechanical performance up to 5400 Pa positive load and 2400 Pa.Negative load.

## Complete System and Product Certifications

IEC61215/IEC61730/IEC61701/IEC62716/UL61730  
ISO 9001: Quality Management System  
ISO 14001: Environmental Management System  
ISO14064: Greenhouse Gases Emissions Verification  
ISO45001: Occupational Health and Safety Management System



15 Years Warranty for Materials and Processing



30 Years Warranty for Extra Linear Power Output

**24.02%**

Max Efficiency

**0-3%**

Power Tolerance

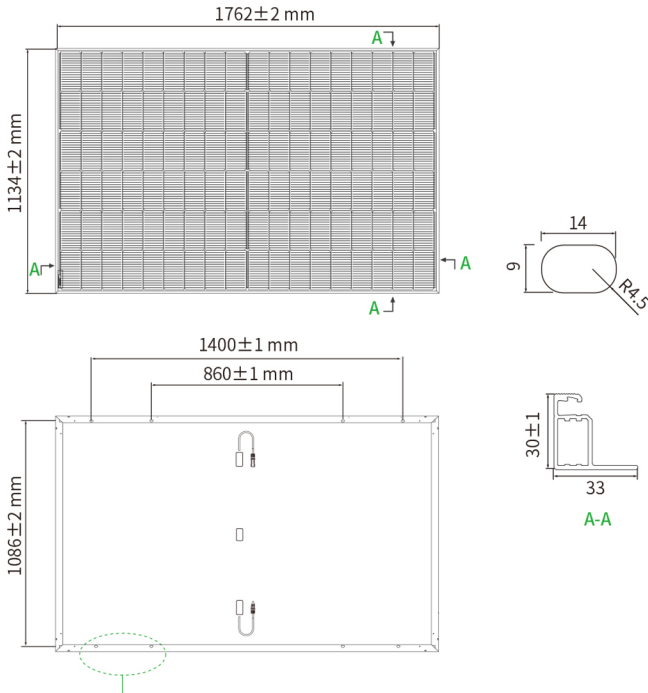
**1762x1134x30mm**

Dimension

**21.0kg**

Weight

**N-type TOPCon**



## Mechanical Characteristics

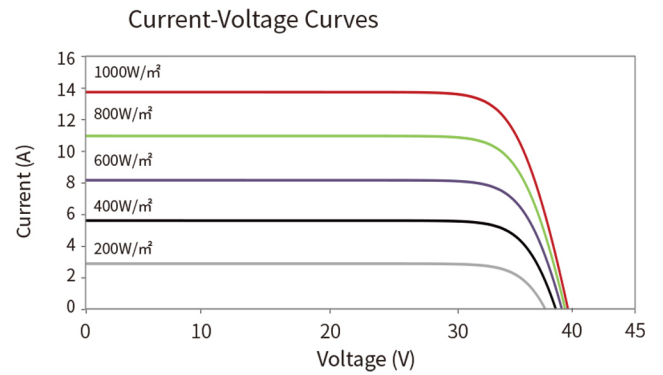
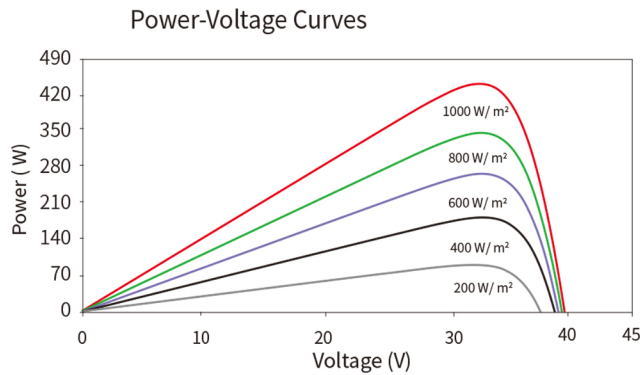
Cell Orientation	108 (54x2)
Dimension	1762x1134x30mm
Weight	21.0kg
Glass	3.2mm, Anti-reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68 Rated
Output Cable	4.0mm <sup>2</sup> (+):400mm, (-):200mm or Customized Length
Packaging	36pcs/pallet, 936pcs/40'HQ

## Electrical Data (STC)

	<b>460W</b>	<b>465W</b>	<b>470W</b>	<b>475W</b>	<b>480W</b>
Maximum Power(Pmax)	460W	465W	470W	475W	480W
Maximum Power Voltage(Vmp)	33.78V	33.98V	34.18V	34.38V	34.58V
Maximum Power Current(Imp)	13.62A	13.69A	13.76A	13.83A	13.90A
Open-circuit Voltage(Voc)	40.37V	40.57V	40.77V	40.97V	41.17V
Short-circuit Current(Isc)	14.08A	14.15A	14.22A	14.29A	14.36A
Module Efficiency(%)	23.02%	23.27%	23.52%	23.77%	24.02%

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5.

## Curve



## Temperature Ratings(STC)

Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Pmax	-0.290%/°C
NOCT (Nominal operating cell temperature)	45±2°C

## Operating Parameters

Operating temperature(°C)	-40°C~+70°C
Maximum system voltage	1000V DC(IEC)
Maximum series fuse rating	25A
Power tolerance	0-3%