

# TeraMax Neo 54HS

## 410~430 watt

### N-Silicon, 182 HALF-CUT CELL

TeraMax Neo 54HS solar module, which is particularly designed for rooftops, makes installation much easier. With N-Silicon technology, its extraordinarily high efficiency enables you to install as many as you can in a limited area and its excellent performance provides more yield.



## Key Features



### TeraMax Neo Technology

Innovated cell structure brings extremely high efficiency



### Lower LID/LETID

N-Silicon technology provides better reliability and lower LID/LETID



### Multi-busbar Technology

Multi-busbar helps to trap more light and electricity



### Better Temperature Coefficient

Better temperature coefficient provides less hot loss



### Excellent Low Irradiance Performance

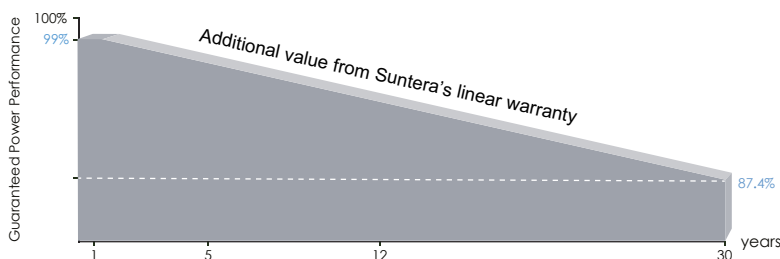
Longer working hours and more power



### Light Design

Light design for rooftop particularly

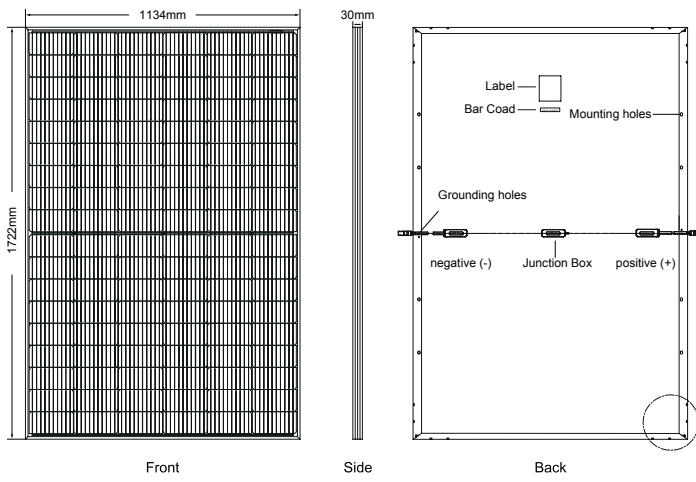
## Linear Performance Warranty



**15 Years Product Warranty**

**30 Years Linear Power Warranty**

**0.4% Annual Degradation Over 30 Years**



## MECHANICAL CHARACTERISTICS

Cell Type	N Type Mono-crystalline 182x91mm
No. of Cells	108 cells
Dimensions	1722(±2)×1134(±2)×30(±1)mm
Weight	21kg±3%
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Max Static Loading	5400Pa(front)/2400Pa(rear)
Junction Box	IP68 Rated
Output Cables	4.0 mm <sup>2</sup> , cable length: 300 mm or Customized Length

## PACKAGING CONFIGURATION

( Two pallets = One stack )

36pcs/pallets, 72pcs/stack, 936pcs/ 40'HQ Container

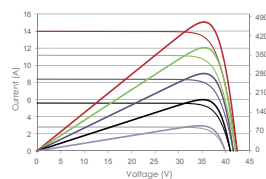
## SPECIFICATIONS

Module Type	ST2-M54HS-410	ST2-M54HS-415	ST2-M54HS-420	ST2-M54HS-425	ST2-M54HS-430
Maximum Power (P <sub>max</sub> /W)	410	415	420	425	430
Maximum Power Voltage (V <sub>mp</sub> /V)	31.60	31.80	32.00	32.20	32.40
Maximum Power Current (I <sub>mp</sub> /A)	12.98	13.06	13.13	13.20	13.28
Open-circuit Voltage (V <sub>oc</sub> /V)	37.50	37.70	37.90	38.10	38.30
Short-circuit Current (I <sub>sc</sub> /A)	13.88	13.96	14.04	14.11	14.18
Module Efficiency STC (%)	20.5	20.7	21.0	21.8	22.0
Operating Temperature	-40°C~+85°C				
Maximum System Voltage	1500VDC				
Maximum Series Fuse Rating	25A				
Power Tolerance	0~+3%				
STC	Irradiance 1000W/M2, cell temperature 25°C, AM 1.5				

## TEMPERATURE RATINGS

Temperature Coefficient of P <sub>max</sub>	-0.30%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.25%/°C
Temperature Coefficient of I <sub>sc</sub>	+0.046%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Current-Voltage & Power-Voltage Curve (430W)



Temperature Dependence of I<sub>sc</sub>, V<sub>oc</sub>, P<sub>max</sub>

