

TN430-60CW **TN435-60CW**
TN440-60CW **TN445-60CW**
TN450-60CW **TN470-60CW**

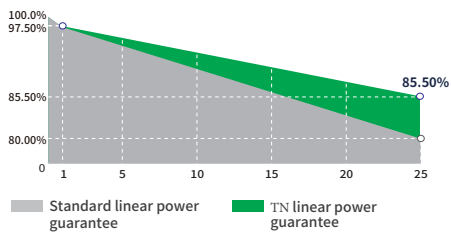


Product and Quality Certifications

IEC 61215, IEC 61730

ISO 9001 : 2015 Quality Management System

ISO 14001 : 2015 Environment Management System



Lightweight

Optimized composite materials, 70% lighter at the same power.



Flexible

Flexional encapsulating and patent materials.



Excellent Appearance and Performance

Esthetics module design, no flare effect, "0" risk of micro crack.



Easy transportation and installation

Original design making it far less costly for transportation and installation.



Customization

Customization for various scenarios, high additional value.



Superior Performance at Low Irradiance

Excellent low irradiance performance, increase power generation in low-light conditions like mornings, evenings and cloudy days.

Ultra Light Flexible PV Module

450W

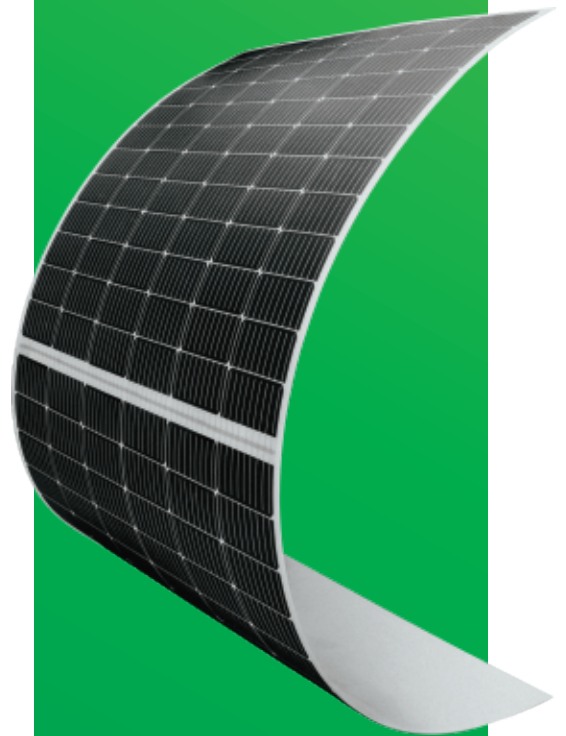
Maximum Output Power

20.70%

Maximum Module Efficiency

0~+5W

Power Output Tolerance



Electrical Data (STC)

Part Number	TN430-60CW	TN435-60CW	TN440-60CW	TN445-60CW	TN450-60CW
Peak Power Watts- $P_{MAX}(Wp)^*$	430	435	440	445	450
Power Output Tolerance	0/+5W				
Open Circuit Voltage- $V_{oc}(V)$	41.43	41.58	41.73	41.88	42.03
Short Circuit Current- $I_{sc}(A)$	13.62	13.69	13.76	13.83	13.90
Maximum Power Voltage- $V_{MPP}(V)$	34.18	34.33	34.48	34.63	34.78
Maximum Power Current- $I_{MPP}(A)$	12.30	12.68	12.77	12.86	12.95
Panel Efficiency(%)	19.80	20.00	20.30	20.50	20.70

STC :Irradiance 1000w/m²,Cell Temperature 25°C *Mearsure tolerance:±3%

Electrical Data (NMOT)

MaximumPower- $P_{MAX}(Wp)^*$	320	324	327	331	335
Open Circuit Voltage- $V_{oc}(V)$	38.60	38.75	38.89	39.03	39.17
Short Circuit Current- $I_{sc}(A)$	10.99	11.05	11.11	11.16	11.22
Maximum Power Voltage- $V_{MPP}(V)$	32.40	32.54	32.68	32.82	32.96
Maximum Power Current- $I_{MPP}(A)$	9.88	9.96	10.01	10.09	10.16

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

Mechanical Data

Panel Dimension	1911 x 1137 mm		
Type	basic	enhance	high performance
Thickness	2.7 mm	3.0 mm	3.2 mm
Weight	6.5 kg	8.3 kg	9.0 kg
Cell Size	182x91 mm		
Cell Number	120		
Junction Box Diodes	3		
Junction Box Protection Class	IP68		
Connector Type	MC4 or MC 4 Compitable		
Cable	1x4mm ² ,(+): 300mm , (-): 300mm or Customized Length		

Temperature Ratings

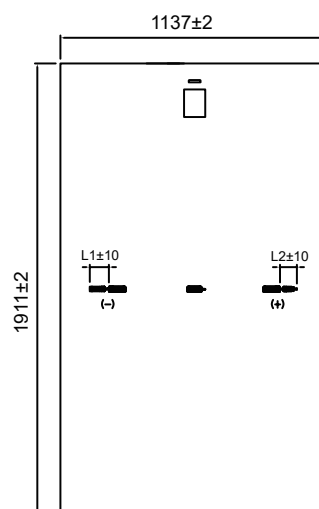
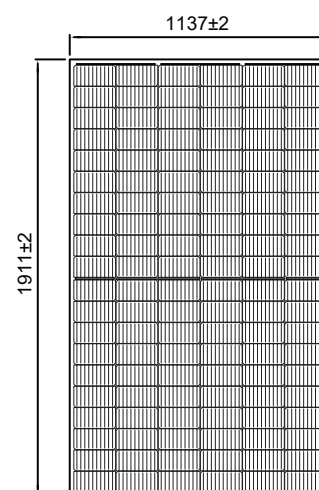
NMOT	45°C(±2°C)
Temperature Coefficient of P_{MAX}	-0.350%/°C
Temperature Coefficient of V_{oc}	-0.260%/°C
Temperature Coefficient of I_{sc}	+0.047%/°C

* Do not connect Fuse in Combiner Box with two or more strings in parallel connection

Packaging Configuration

Modules per box	68 pieces
Modules per 40'container	1632 pieces

Dimensions of PV Module(mm)



Maximum Ratings

Operational Temperature	-40~±85 °C
Front/Rear Side Load	2400/2400pa
Max Series Fuse Rating	25A
Max System Voltage	1500V (DC)

Warranty

Product Workmanship Warranty	15 years
Output Power Warranty	25 years