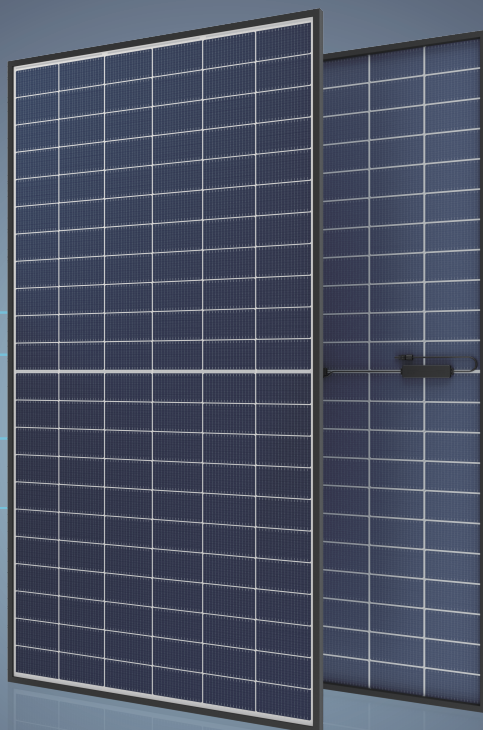




SG-66TG4D-X

630-655W

Maximum Efficiency **24.2%**

Smart Functions

Module-Level Monitoring

iSolarCloud Storage & Data Visualization

Smart Pathfinding

Fault Localization & Precision Bypass

System-Level Response

Anomaly Detection & Shutdown Time $\leq 25s$

Digital Lifecycle Records

Full Lifecycle Data Transparency

Self-cleaning

More Power Generation

Product Warranty

15 Year

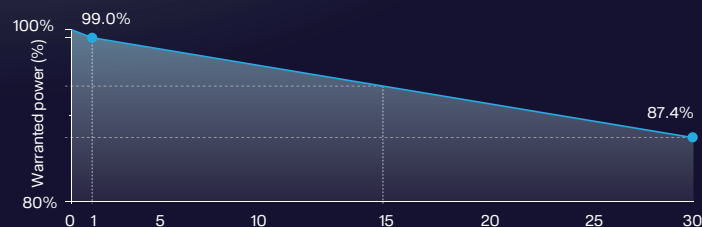
Warranty for Materials and Processing

First Year Power Degradation **<1%**

30 Year

Warranty for Extra Linear Power Output

Year 2-30 Power Degradation **<0.4%**

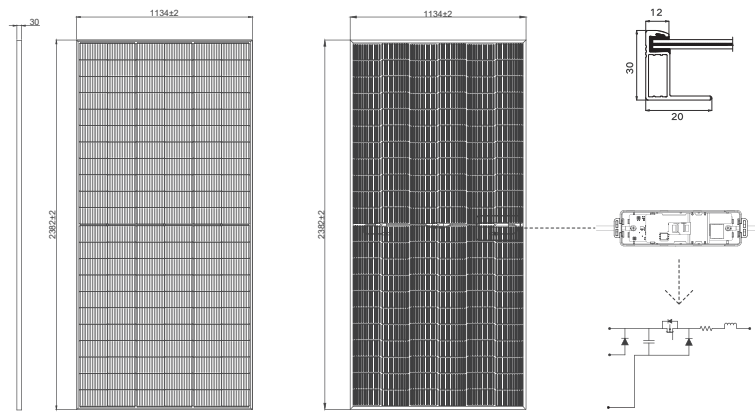


Quality Certification



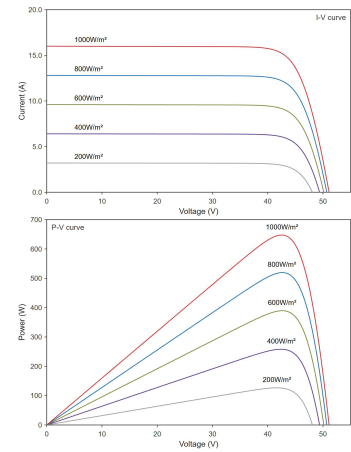
- IEC61215:2021 / IEC61730:2023
- IEC62109-3:2020
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

Engineering Drawings



Unit: mm

I-V and P-V Curves



Specifications (STC)

Maximum Power Pmax (W)	630	635	640	645	650	655
Voltage at Maximum Power (Vmp/V)	42.0	42.3	42.6	42.9	43.2	43.5
Current at Maximum Power (Imp/A)	15.02	15.04	15.06	15.08	15.10	15.12
Open Circuit Voltage (Voc/V)	50.20	50.50	50.80	51.10	51.40	51.70
Short Circuit Current (Isc/A)	15.94	15.96	15.98	16.00	16.02	16.04
Module Efficiency (%)	23.3	23.5	23.7	23.9	24.1	24.2
Power Tolerance	0~+3%	Maximum System Voltage			DC1500V	
Maximum Series Fuse Rating	30A	Operating Temperature			-40°C~+70°C	
Bifacial Factor	80±5%					

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

Specifications (BNPI)

Maximum Power Pmax (W)	693	699	704	710	715	721
Voltage at Maximum Power (Vmp/V)	42.0	42.3	42.6	42.9	43.2	43.5
Current at Maximum Power (Imp/A)	16.52	16.54	16.57	16.59	16.61	16.63
Open Circuit Voltage (Voc/V)	50.20	50.50	50.80	51.10	51.40	51.70
Short Circuit Current (Isc/A)	17.54	17.56	17.58	17.60	17.62	17.64

BNPI: Irradiance Front 1000W/m², Rear 135W/m², Cell Temperature 25°C, AM=1.5

Mechanical Characteristics

Cell Type	N-type mono-crystalline
Cell Orientation	132 (6×22)
Dimension	2382×1134×30mm
Weight	32.2kg
Front Glass	2.0mm, Anti-reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Composite material
Junction Box	IP68 rated
Output Cables	4mm², (+) : 1200mm, (-) : 1200mm or customize length
Connector Type	MC4-EVO2A/others
Mechanical Load	5400Pa (Front side) /2400Pa (Rear side)

Temperature Characteristics

Temperature Coefficients of Pmax	-0.29%/°C
Temperature Coefficients of Voc	-0.25%/°C
Temperature Coefficients of Isc	0.045%/°C

Packaging Configuration

Packing Detail	36 pcs/pallets, 72 pcs/stack, 720 pcs/ 40'HQ container
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RSD Parameters

Shutdown Output Voltage	1±0.1V
Output Bypass	Yes
Rapid Shutdown Time	≤25s
Maximum Input Voltage	60V
Maximum System Voltage	1500V
Communication Method	PLC
Maximum Communication Distance	≤450m

SUNGROW

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*Specifications included in this datasheet are subject to change without notice. Sungrow Renewables reserves the right of final interpretation.