

Solar panel

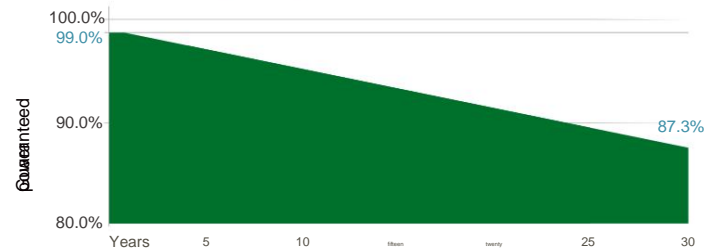
Mono-Crystalline TOPCON
DUAL GLASS BIFACIAL



Main Features

- TOPCon / Half Cut
- Best temperature coefficient (Pmpp)
- Non-destructive cutting
- PID resistance
- Low cost BOS and LCOE
- Bifacial gain

Warranty



SE-182*105-xxxM-132-BD

595-615 Watts



Complete certification of systems and products.

IEC 61215, IEC 61730, UL61730
ISO 9001:2015:ISO Quality Management System
ISO 14001:2015:ISO Environment Management System
ISO 45001:Occupational Health and Safety



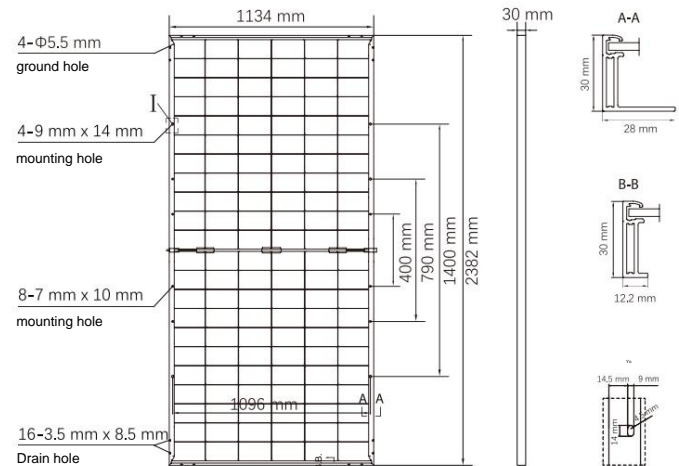
POWER RANGE

ENERGY CLASSIFICATION

MAXIMUM EFFICIENCY
OF THE MODULEFIRST YEAR
ENERGY DEGRADATIONYEAR 2-30
ENERGY DEGRADATION

Mechanical Specifications

External dimensions (L x W x H) 2382 x 1134 x 30 mm	
Cell type	n-type monocrystalline
No. of cells	132 (6*22)
Frame technology	Silver anodized aluminum
Front/rear glass	2.0+2.0mm
Cable length (including connector)	1400mm; Custom length
Cable diameter (IEC/UL)	4mm ² / 12AWG
Maximum mechanical test load 5400 Pa (front) / 2400 Pa (rear)	
Connector type (IEC/UL)	HCB40 (Standard) / MC4-EVO2A (Optional)
Module weight	33.5kg
packaging unit	36 pcs/pallet
Packaging unit weight	1264 kg / pallet
Modules per 53 ft truck	792 pcs (22 pallets)



Electrical Specifications

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

	595	600	605	610	615
Rated output (P _{mpp} /Wp)					
Rated voltage (V _{mpp} /V)	40.92	41.05	41.18	41.31	41.43
Rated current (I _{mpp} /A)	14.54	14.62	14.69	14.77	14.84
Open circuit voltage (V _{oc} /V)	48.29	48.44	48.59	48.74	48.89
Short circuit current (I _{sc} /A)	15.70	15.78	15.86	15.94	16.02
Module efficiency	22.0%	22.2%	22.4%	22.6%	22.8%

NMOT: Irradiance 800W/m², Ambient temperature 20° C, AM=1.5, Wind speed 1m/s

	447.4	451.2	455.0	458.7	462.5
Rated output (P _{mpp} /Wp)					
Rated voltage (V _{mpp} /V)	38.52	38.64	38.76	38.88	39.00
Rated current (I _{mpp} /A)	11.62	11.68	11.74	11.80	11.86
Open circuit voltage (V _{oc} /V)	45.87	46.01	46.15	46.30	46.44
Short circuit current (I _{sc} /A)	12.67	12.74	12.80	12.87	12.94

Electrical Specifications (Integrated Power)

P _{mpp} win	P _{mpp} / Wp	V _{mpp} / V	I _{mpp} /A	V _{oc} /V	I _{sc} /A
5%	641	41.31	15.51	48.74	16.74
10%	671	41.31	16.24	48.74	17.54
fifteen%	702	41.31	16.98	48.74	18.33
twenty%	732	41.31	17.72	48.74	19.13
25%	763	41.31	18.46	48.74	19.93

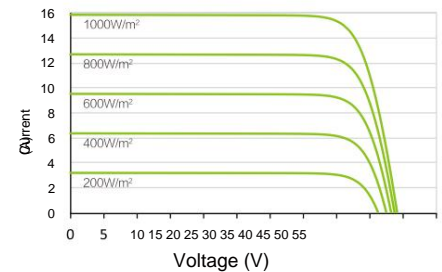
Electrical characteristics with different rear power gain (reference to 610W)

Temperature Ratings (STC) Operating Parameters

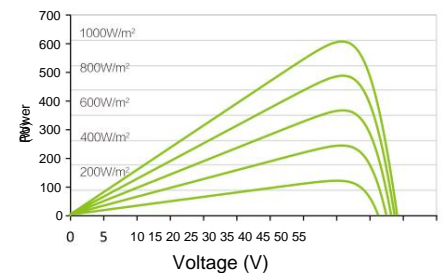
Temperature coefficient (P _{mpp})	-0.29%/°C	No. of diodes	3
Temperature coefficient (I _{sc})	+0.043%/°C	Junction Box IP Rating	IP 68
Temperature coefficient (V _{oc})	-0.25%/°C	Max. Series Fuse Rating	35A
Nominal Module Operating Temperature (NMOT)	41±2°C	Max. system voltage (IEC/UL)	1500VDC

Curve

Current-Voltage(610W)



Power-Voltage(610W)



Current-Voltage(610W)

