PV Module

Monocrystalline TOPCon Module with Half-Cut Cell Technology

PV640-R66KGTN

PV MODULES

High power, premium quality module

- Advanced N-type TOPCon technology, designed to provide greater module efficiency, quality, high power, bifaciality, and high-level reliability
- Faster installations as high module power ratings result in fewer modules and cables
- Single trusted vendor solution from roof to grid, for streamlined logistics, warranty, and servicing
- High durability to extreme weather hazards, in addition to 2.0 mm double glass
- 25-year module warranty and 30-year linear performance warranty

/ PV Module

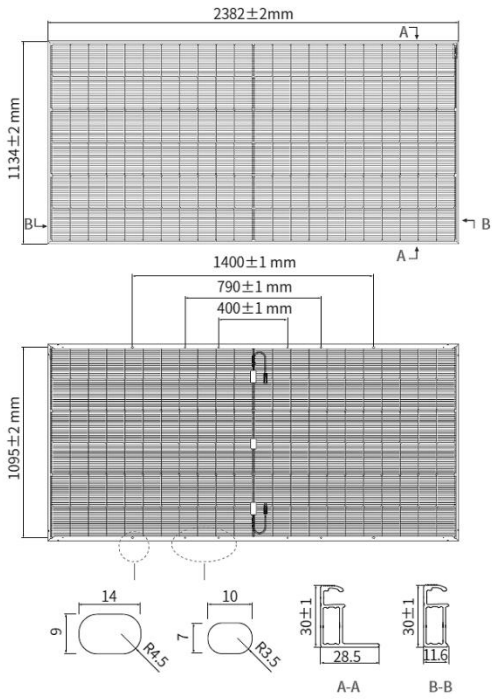
PV640-R66KGTN

MODULE ELECTRICAL PROPERTIES	PV640-R66KGTN	UNITS
STC(1)		
Module Power	640	W
Maximum Power Voltage (Vmp)	41.30	V
Maximum Power Current (Imp)	15.50	A
Open Circuit Voltage (Voc)	49.88	V
Short Circuit Current (Isc)	16.32	A
Maximum System Voltage	1500	Vdc
Maximum Series Fuse Rating	35	A
Bifaciality Coefficient	φVoc: 98±5 %, φIsc: 80±5 %, φPmax: 80±5 %	
Module Efficiency	23.69	%
BNPI(2)		
Module Power	707	W
Maximum Power Voltage (Vmp)	41.33	V
Maximum Power Current (Imp)	17.10	A
Open Circuit Voltage (Voc)	49.86	V
Short Circuit Current (Isc)	18.03	A

MODULE MECHANICAL PROPERTIES		
Cells	132 (66 x 2)	
Cell Type	N- type Mono-crystalline	
Dimensions (L x W x H)	2382 x 1134 x 30	mm
Front Side Maximum Load (Snow)	5400	Pa
Rear Side Maximum Load (Wind)	2400	Pa
Weight	32.4	kg
Front/Rear Glass	2.0 mm anti-reflection coating / 2.0 mm heat strengthened glass	
Frame	Anodized aluminum alloy	
Junction Box	IP68 Rated	
Connector Type	MC4	
Operating Temperature	-40 to +70	°C
Packaging Information (units per pallet)	36	

TEMPERATURE CHARACTERISTICS		
Temperature Coefficient Power (Pm)	-0.29	% / °C
Temperature Coefficient Voltage (Voc)	-0.25	% / °C
Temperature Coefficient Current (Isc)	0.045	% / °C

(1) STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5.
(2) BNPI: Irradiance Front 1000 W/m², Irradiance Rear 135 W/m², Cell Temperature 25°C, Air Mass AM1.5.



CERTIFICATIONS & WARRANTY	
Module Certifications	IEC 61215:2021; IEC 61730:2023; IEC 61701; IEC 62716; IEC 60068; IEC 62804 ISO9001:2015: Quality Management System ISO14001:2015: Environment Management System ISO45001:2018: Occupational Health and Safety Management Systems
Product Warranty	25-year module warranty(3)
Output Warranty of Pmax	30-year linear performance warranty(4)

(3) Subject to the terms of the standard product warranty.
(4) 1st year 99%; 87.4% power output over 30 years.

/ PV Module

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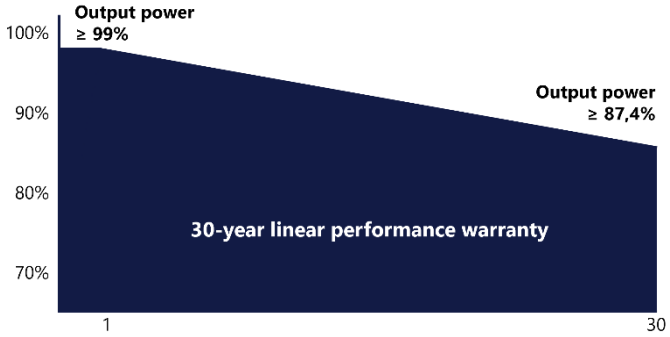
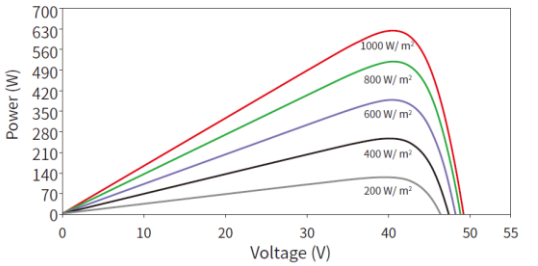
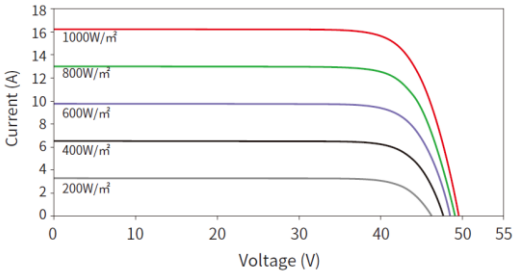
25-Year Product Warranty
30-Year Linear Performance Warranty



Power Voltage Curves



Current Voltage Curves



SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.

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