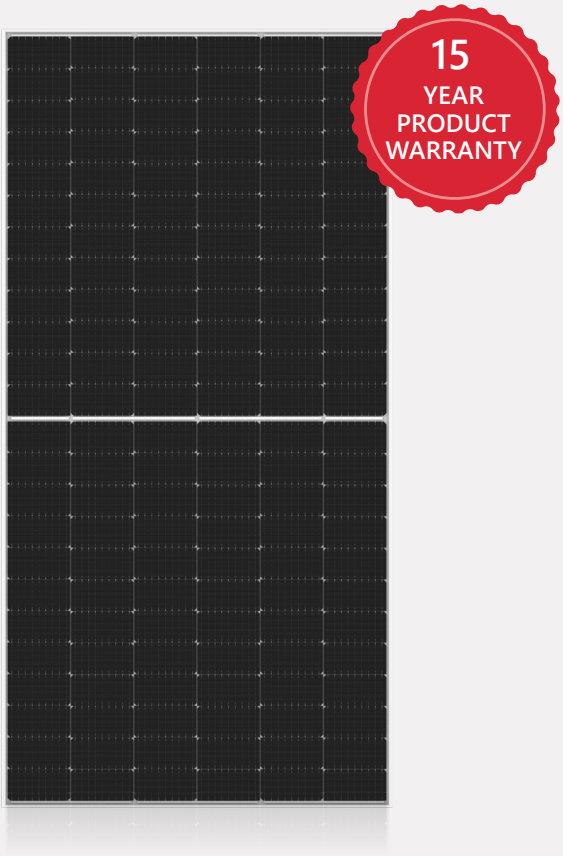
SolarEdge PV Module

Monocrystalline Bi-Facial Module

PV530-R72LGML, PV535-R72LGML, PV540-R72LGML

PV MODULE



High power, premium quality bi-facial module

- Superior module efficiency, quality and long-term reliability with advanced M10 and P-PERC technologies
- Faster installations as high module power ratings result in fewer modules and cables
- Convenient single vendor solution from module to grid, for streamlined logistics, warranty and servicing
- 5%-25% higher energy production when installing bi-facial modules, enabling potentially shorter project ROI
- Optimized size that is ideal for module transportation as well as solar tracking systems
- 15-year module warranty and 30-year performance warranty

/ SolarEdge PV Module

PV530-R72LGML, PV535-R72LGML, PV540-R72LGML

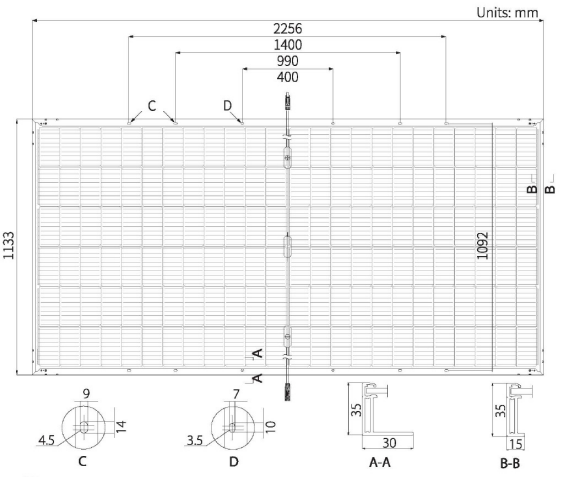
ELECTRICAL CHARACTERISTICS	PV530-R72LGML		PV535-R72LGML		PV540-R72LGML		
TESTING CONDITION(1)(2)	STC	NOCT	STC	NOCT	STC	NOCT	
Max. Power (Pmax)	530	395.8	535	399.5	540	403.3	W
Open Circuit Voltage (Voc)	49.20	46.03	49.35	46.17	49.50	46.31	V
Short Circuit Current (Isc)	13.71	11.08	13.78	11.14	13.85	11.19	A
Voltage at Maximum Power (Vmp)	41.35	38.55	41.50	38.69	41.65	38.83	V
Current at Maximum Power (Imp)	12.82	10.27	12.90	10.33	12.97	10.39	A
Module Efficiency	20.7		20.9		21.1		%

(1) STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5
(2) NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (REFERENCE TO 530W FRONT)					
REARSIDE POWER GAIN	Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A
5%	557	49.20	14.40	41.35	13.46
10%	583	49.20	15.08	41.35	14.10
15%	610	49.30	15.77	41.45	14.74
20%	636	49.30	16.46	41.45	15.38
25%	663	49.30	17.14	41.45	16.02

OPERATION PARAMETERS		
Operational Temperature	-40 to +85	°C
Power Output Tolerance	0 - +5	W
Voc and Isc Tolerance	± 3	%
Max. System Voltage	DC1500V (IEC/UL)	
Max. System Fuse Rating	30	A
Nominal Operating Cell Temperature	45 ± 2	°C
Protection Class	Class II	
Fire Rating	Class C according to UL790	
Bifaciality	70 ± 5	%

MODULE MECHANICAL PROPERTIES		
Cells	144 (6 x 24)	
Cell Type	Monocrystalline PERC	
Cell Dimensions	182 x 91	mm
Dimensions (L x W x H)	2256 x 1133 x 35	mm
Output Cable	4mm², positive 1400 / negative 1400	mm
Front Side Maximum Load (Snow)	5400	Pa
Rear Side Maximum Load (Wind)	2400	Pa
Weight	32.3	kg
Front and Rear Glass	Dual glass, 2.0mm coated tempered glass	
Frame	Anodized aluminum alloy frame	
Junction Box	3 boxes, 1 diode for each box, IP68	
Connector Type	MC4 EVO 2	
Operating Temperature	-40 to +85	°C
Packaging Information (units per pallet)	31	



/ SolarEdge PV Module

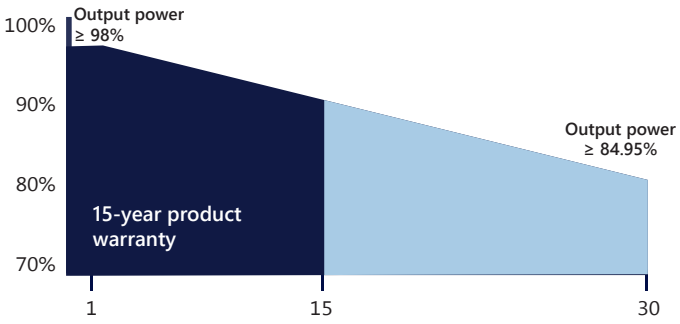
PV530-R72LGML, PV535-R72LGML, PV540-R72LGML

CERTIFICATIONS & WARRANTY		
Module Certifications	IEC 61215:2016, IEC61730	
Product Warranty	15-year module warranty	
Output Warranty of Pmax	30-year linear module warranty(3)	
TEMPERATURE CHARACTERISTICS		
Temperature Coefficient Power (Pm)	-0.350	% / °C
Temperature Coefficient Voltage (Voc)	-0.284	% / °C
Temperature Coefficient Current (Isc)	+0.050	% / °C
Operating Cell Temperature (NOCT)	45 ± 2	°C

(3) 1st year: 98%, 84.95% power output at year 30

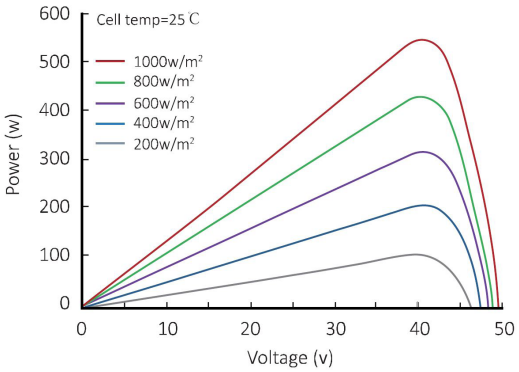
Linear Warranty

15-Year Product Warranty
30-Year Linear Power Warranty

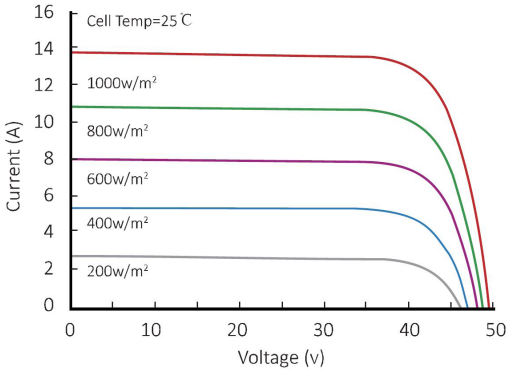


Panel I-V Curve (PV530-R72LGML)

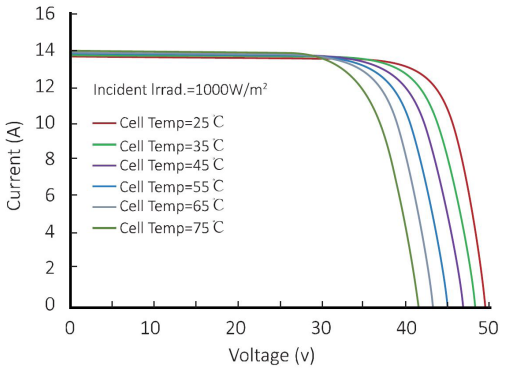
Power-Voltage Curve



Current-Voltage Curve



Current-Voltage Curve



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.

SolarEdge
@SolarEdgePV
@SolarEdgePV
SolarEdgePV
SolarEdge
www.solaredge.com/corporate/contact

solaredge.com

Cautionary Note Regarding Market Data and Industry Forecasts:This brochure may contain market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.

CE

solaredge