

MONOFACIAL

DE-132G12RHC**620W-650W**

Small in size, bigger on power

- Up to 650W,24.1% module efficiency with high density interconnect technology
- Reduce installation cost with higher power bin and efficiency
- Boost performance in warm weather with low temperature coefficient and operating temperature

High customer value

- Lower LCOE, reduced BOS cost, better ROI
- · Lowest guaranteed first year and annual degradation
- Optimized compatibility with existing mainstream system components

High output power

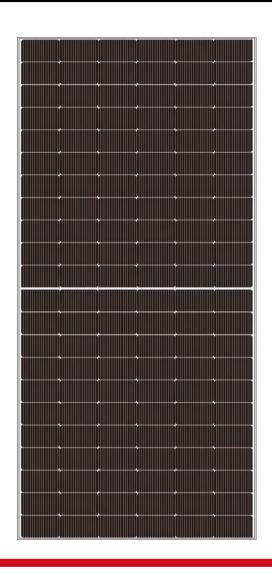
- Based on G12R-210mm solar cells with N-type TopCon technology
- High density interconnection provides improved power density
- MBB technology improves light-trapping effect and current-collection, while lowering series resistance

High reliability

- Minimized micro-cracks with innovative non-destructive cutting technology minimizes micro-cracking
- Ensured PID resistance through improved cell process and module material control
- Resistant to harsh environments
- Mechanical performance up to +5400/-2400 Pa

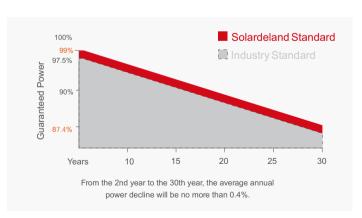
Longer warranty

- First-year degradation 1% and annual degradation at 0.4%
- Up to 12 years product warranty and 30 years power warranty



PRODUCT Warranty

12 YEARS Product Warranty **30YEARS** Performance guarantee









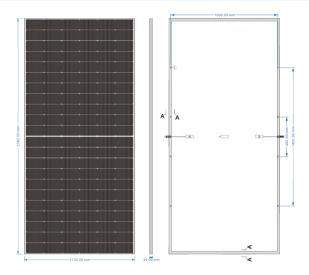




G12R-MONOFACIAL 620W-650W

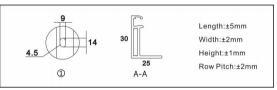
MECHANICAL PARAMETERS

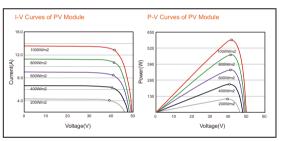
Cell Type	N-Type TopCon Half-cut Cell
No. of Cells	132
Front Cover	3.2 mm glass, high transmission, AR coated, tempered
Encapsulation	EVA
Back Cover	White backsheet
Junction Box	IP68 rated, 3 bypass diodes
Frame	30mm Anodized Aluminium Alloy
Cable	1 x 4 mm ² , 350 mm length or customized
Connectors	MC 4/ MC 4 compatible
Weight	28Kg
Dimension	2382*1134*30mm
Packaging	36pcs/pallet,720pcs/40HQ Container



OPERATING PARAMETERS

Operational Temperature	-40~+85°C
Power Output Tolerance	0~5W
Voc and Isc Tolerance	<u>+</u> 3%
Maximum System Voltage	1500VDC(IEC)
Maximum Series Fuse Rating	25A
Nominal Operational Cell Temperature	43 ± 2°C
Protection Class	Class II
Fire Rating	UL type 1 or 2 IEC Class C





ELECTRICAL CHARACTERISTICS STC AM1.5 1000W/m² 25°C NOCT:AM1.5 800W/m² 20°C 1m/s Test uncertaintv for Pmax: ±3%

DE-132G12RHC620W	DE-132G12RHC625W	DE-132G12RHC630W	DE-132G12RHC635W	DE-132G12RHC64W	DE-132G12RHC645W	DE132G12RHC650
STC NOCT	STC NOCT	STC NOCT	STC NOCT	STC NOCT	STC NOCT	STC NOCT
620W 479W	625W 483W	630W 479W	635W 483W	640W 487W	645W 491W	650W 495W
/V) 41.10 39.00	41.30 39.20	41.50 39.00	41.70 39.20	41.90 39.40	42.10 39.60	42.30 39.80
A) 15.09 12.28	15.13 12.32	15.18 12.28	15.23 12.32	15.28 12.36	15.33 12.40	15.37 12.44
49.20 47.00	49.40 47.20	49.60 47.00	49.80 47.20	50.00 47.40	50.20 47.60	50.40 47.80
15.94 12.97	15.98 13.00	16.03 12.97	16.08 13.00	16.14 13.05	16.19 13.09	16.23 13.12
22.90%	23.00%	23.30%	23.50%	23.70%	23.90%	24.10%
	STC NOCT 620W 479W 0W) 41.10 39.00 A) 15.09 12.28 49.20 47.00 15.94 12.97	STC NOCT STC NOCT 620W 479W 625W 483W 6V) 41.10 39.00 41.30 39.20 A) 15.09 12.28 15.13 12.32 49.20 47.00 49.40 47.20 15.94 12.97 15.98 13.00	STC NOCT STC NOCT STC NOCT 620W 479W 625W 483W 630W 479W 6V) 41.10 39.00 41.30 39.20 41.50 39.00 A) 15.09 12.28 15.13 12.32 15.18 12.28 49.20 47.00 49.40 47.20 49.60 47.00 15.94 12.97 15.98 13.00 16.03 12.97	STC NOCT STC NOCT STC NOCT STC NOCT 620W 479W 625W 483W 630W 479W 635W 483W 6N) 41.10 39.00 41.30 39.20 41.50 39.00 41.70 39.20 A) 15.09 12.28 15.13 12.32 15.18 12.28 15.23 12.32 49.20 47.00 49.40 47.20 49.60 47.00 49.80 47.20 15.94 12.97 15.98 13.00 16.03 12.97 16.08 13.00	STC NOCT 620W 479W 625W 483W 630W 479W 635W 483W 640W 487W 60W 41.10 39.00 41.30 39.20 41.50 39.00 41.70 39.20 41.90 39.40 A) 15.09 12.28 15.13 12.32 15.18 12.28 15.23 12.32 15.28 12.36 49.20 47.00 49.40 47.20 49.60 47.00 49.80 47.20 50.00 47.40 15.94 12.97 15.98 13.00 16.03 12.97 16.08 13.00 16.14 13.05	STC NOCT STC NOCT

MECHANICAL LOADING

Snow Load	5400 Pa or 550 kg/m²
Wind Load	2400 Pa or 244 kg/m²
Hail Resistance	Max. Ø 25 mm at 23 m/s

TEMPERATURE RATINGS(STC)

Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Voc	−0.24%/°C
Temperature Coefficient of Pmax	-0.30%/°C

Solardeland

+49 15206248869 Kreuzstr. 60, 40210 Düsseldorf, Germany

info@solardeland.com

www.solardeland.com

