

DE-132G12RHC620W-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

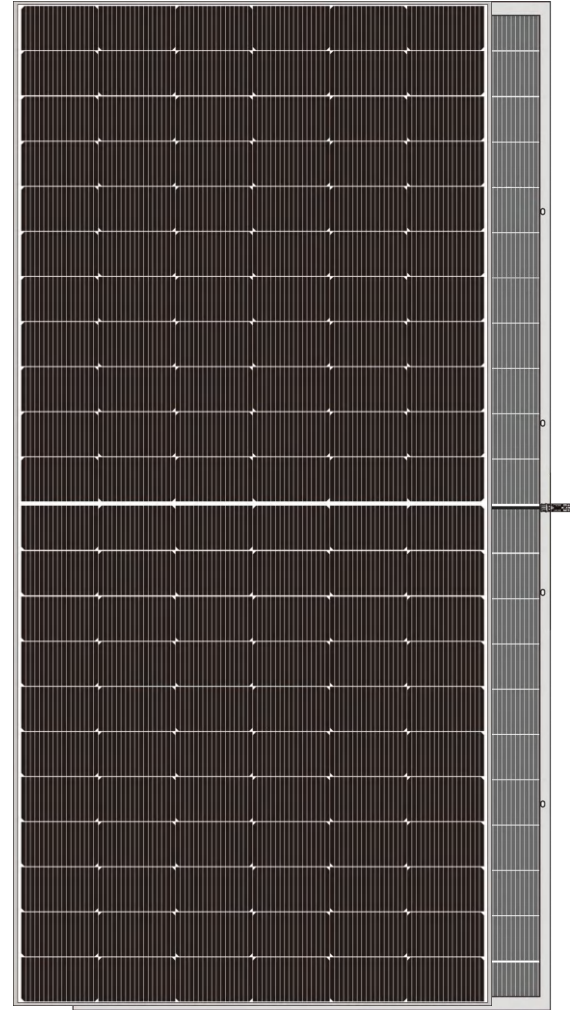
- Based on G12R-210mm solar cells with N-type TopCon technology
- High density interconnection provides improved power density
- MBB technology improves light-trapping effect and current-collection, while lowering series resistance

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

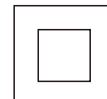
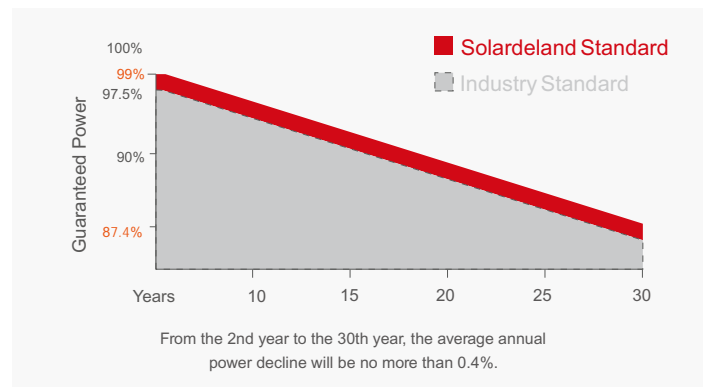
- First-year degradation 1% and annual degradation at 0.4%
- Up to 12 years product warranty and 30 years power warranty



PRODUCT Warranty

12 YEARS Product Warranty

30 YEARS Performance guarantee

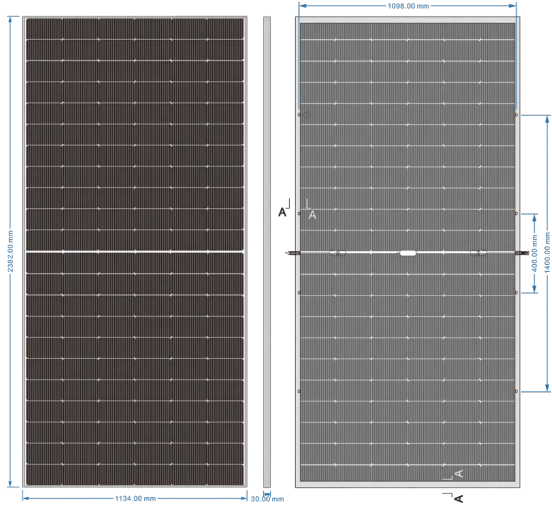


G12R-BIFACIAL 620W-650W

MECHANICAL PARAMETERS

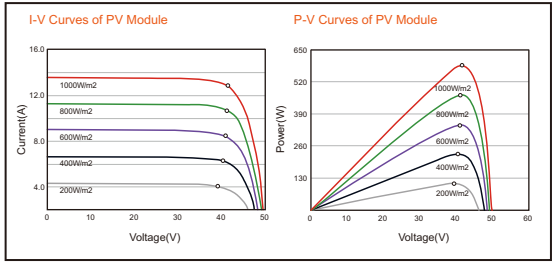
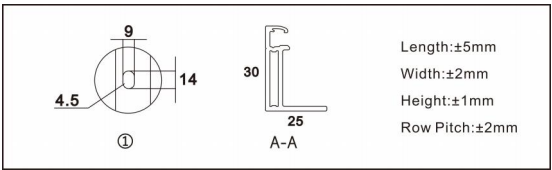
Cell Type	N-Type TopCon Half-cut Cell
No. of Cells	132
Front Cover	2.0 mm glass, high transmission, AR coated, tempered
Encapsulation	EVA
Back Cover	2.0mm,HeatStrengthenedGlass
Junction Box	IP68 rated, 3 bypass diodes
Frame	30mm Anodized Aluminium Alloy
Cable	1 x 4 mm ² , 350 mm length or customized
Connectors	MC 4/ MC 4 compatible
Weight	32.5Kg
Dimension	2382*1134*30mm
Packaging	36pcs/pallet,720pcs/40HQ Container

Tip: The number of double-glass modules placed flatly cannot exceed 15 pieces.



OPERATING PARAMETERS

Operational Temperature	-40~+85°C
Power Output Tolerance	0~5W
Voc and Isc Tolerance	±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 uncertainty for Pmax: ±3%

Module Type	DE-132G12RHC620W	DE-132G12RHC625W	DE-132G12RHC630W	DE-132G12RHC635W	DE-132G12RHC64W	DE-132G12RHC645W	DE132G12RHC650
Testing Condition	STC NOCT	STC NOCT	STC NOCT	STC NOCT	STC NOCT	STC NOCT	STC NOCT
Maximum Power(Pmax/W)	620W 479W	625W 483W	630W 479W	635W 483W	640W 487W	645W 491W	650W 495W
Voltage at Maximum Power(Vmp/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
Current at Maximum Power(Imp/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
Open Circuit Voltage(Voc/V)	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
Short Circuit Current(sc/A)	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
Module Efficiency(%)	22.90%	23.00%	23.30%	23.50%	23.70%	23.90%	24.10%

MECHANICAL LOADING

Snow Load	5400 Pa or 550 kg/m ²
Wind Load	2400 Pa or 244 kg/m ²
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

Bifacial Output-Rearside Power Gain

	5%	651W	656W	662W	667W	672W	677W	683W
Maximum Power (Pmax)		651W	656W	662W	667W	672W	677W	683W
Module Efficiency STC(%)		24.0%	24.2%	24.5%	24.7%	24.9%	25.1%	25.3%

	10%	682W	688W	693W	699W	705W	710W	715W
Maximum Power (Pmax)		682W	688W	693W	699W	705W	710W	715W
Module Efficiency STC(%)		25.2%	25.3%	25.6%	25.9%	26.1%	26.3%	26.5%

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