ROVON POWER / SOLAR MODULE

Rove N1

RN1 66BD

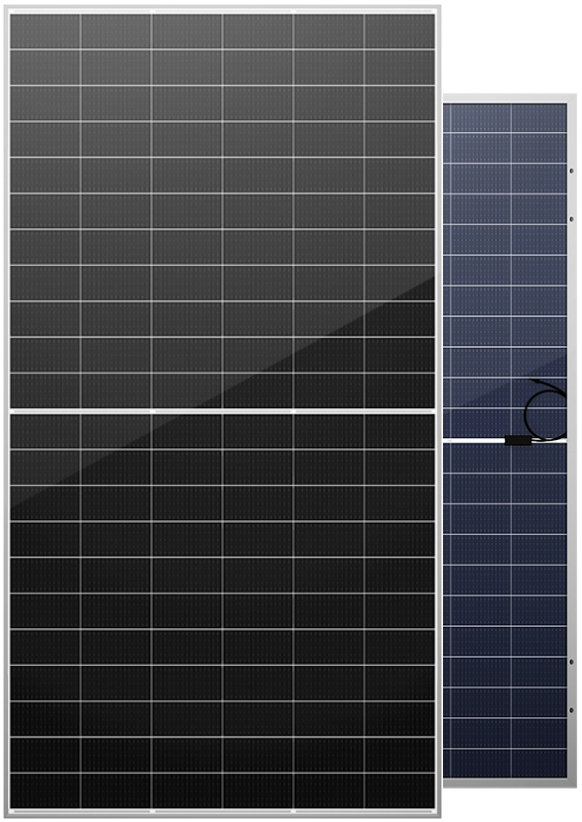
600-635W

N-Type TOPCon Bifacial
Dual Glass Solar Module

23.50%
MAX. MODULE EFFICIENCY

132
HALF-CELLS

2.0 mm front glass / 2.0 mm rear glass
1500 V DC maximum system voltage



FRONT REAR

Product performance

TOPCon technology

Tunnel oxide passivated contacts help reduce recombination losses and support high cell efficiency and module power.

Up to 95% bifaciality

Symmetrical bifacial cells support additional rear-side energy generation.

Sealing with PIB

Integrated coating frames; IEC salt-mist test level 8.

Temperature performance

Pmax temperature coefficient: -0.24%/°C.

Utility-scale applications

Designed to help reduce balance-of-system costs and LCOE.

Quality & Certification

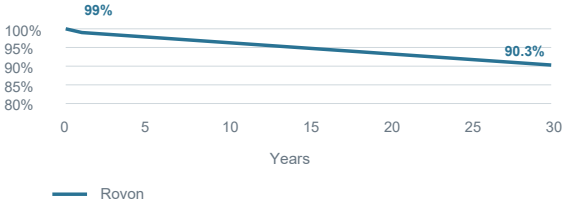
PRODUCT TEST STANDARDS
IEC 61215 / IEC 61730

MANAGEMENT SYSTEM STANDARDS
ISO 9001:2015 · ISO 14001:2015
ISO 45001:2018
IEC 62941:2019

Warranty

15 YEARS
Product

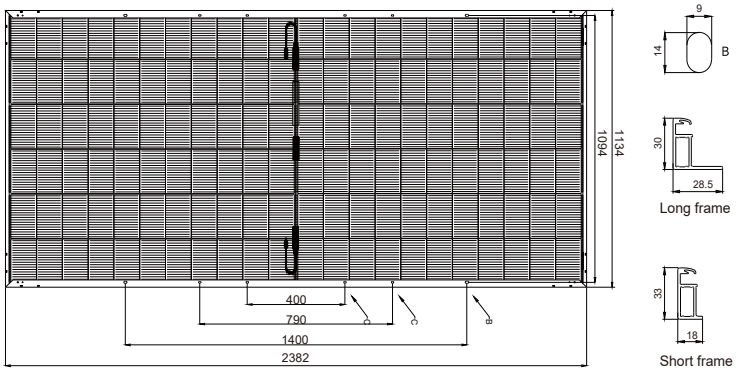
30 YEARS
Power output



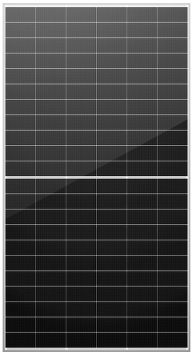
ROVE N1 / RN1 66BD 600-635W

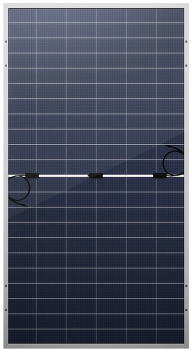
Technical specifications

Drawings



Front / Rear





Mechanical characteristics

PARAMETER	VALUE
Cell type	TOPCon
No. of cells	132 (6 × 22)
Dimensions	2382 × 1134 × 30 mm
Weight	32.6 kg
Junction box	IP68
Cable	4 mm²; +350 / -250 mm; UV resistant; customizable
Connectors	MC4 / MC4-Evo2A / PV-H4 / Z4S-abcd / ST4
Frame	Anodized aluminum alloy frame
Front / rear load	5400 Pa / 2400 Pa
Glass	Dual glass, 2.0 mm
Packaging	36 pcs / pallet; 20 pallets / 40'HC; 720 pcs / 40'HC

Operating characteristics

PARAMETER	VALUE
Module temperature	-40°C to +85°C
Max. system voltage	1500 V DC (IEC)
Max. series fuse	30 A
Pmax tolerance	0 to +3%
Power selection	0 to +5 W
Bifaciality	90 ±5%
Safety class	Class II

Electrical parameters / STC

POWER CLASS	600	605	610	615	620	625	630	635
Pmax (W)	600	605	610	615	620	625	630	635
Vmpp (V)	40.69	40.78	40.85	40.96	41.05	41.14	41.23	41.32
Impp (A)	14.76	14.85	14.95	15.03	15.12	15.21	15.30	15.39
Voc (V)	48.75	48.85	48.94	49.05	49.15	49.25	49.34	49.43
Isc (A)	15.56	15.66	15.76	15.86	15.96	16.06	16.16	16.26
Efficiency (%)	22.20	22.40	22.60	22.80	23.00	23.10	23.30	23.50

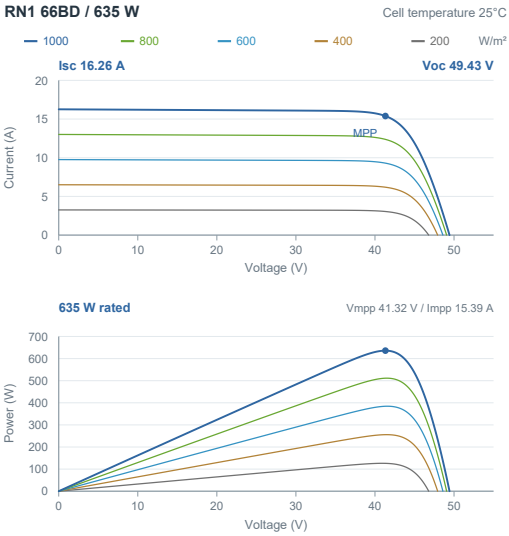
Temperature characteristics

PARAMETER	VALUE
NOCT	44 ±2°C
Pmax coefficient	-0.24%/°C
Voc coefficient	-0.22%/°C
Isc coefficient	+0.04%/°C

Electrical parameters / NOCT

POWER CLASS	600	605	610	615	620	625	630	635
Pmax (W)	458	461	465	469	473	477	481	484
Vmpp (V)	38.84	38.92	38.98	39.09	39.18	39.26	39.34	39.42
Impp (A)	11.80	11.87	11.95	12.01	12.08	12.16	12.23	12.30
Voc (V)	46.53	46.62	46.71	46.82	46.91	47.01	47.09	47.18
Isc (A)	12.44	12.52	12.60	12.68	12.76	12.84	12.92	13.00

I–V / P–V curves



Electrical parameters / BSTC

POWER CLASS	600	605	610	615	620	625	630	635
Pmax (W)	672	678	684	689	695	700	706	712
Vmpp (V)	40.83	40.92	40.99	41.10	41.19	41.28	41.37	41.46
Impp (A)	16.48	16.58	16.69	16.78	16.88	16.98	17.08	17.18
Voc (V)	48.92	49.02	49.11	49.22	49.32	49.42	49.51	49.60
Isc (A)	17.45	17.56	17.67	17.79	17.90	18.01	18.12	18.24

1. STC: AM 1.5, 1000 W/m², 25°C. NOCT: AM 1.5, 800 W/m², 20°C, wind speed 1 m/s.
2. BSTC: AM 1.5, front irradiance 1000 W/m², rear irradiance 135 W/m², cell temperature 25°C.
3. Measuring tolerance: ±3%.

Calculated from datasheet STC parameters.
AM1.5; front irradiance as shown; rear irradiance 0 W/m².