ROVON POWER / SOLAR MODULE

Rove N1

RN1 72M

575-595W

N-Type TOPCon Monofacial
Solar Module

23.02%
MAX. MODULE EFFICIENCY

144
HALF-CELLS

3.2 mm coated tempered front glass
1500 V DC maximum system voltage



FRONT REAR

Product performance

No light-induced degradation

N-type cells have no light-induced degradation (LID), helping retain power output.

N-type cell technology

N-type TOPCon cells with passivating contact technology.

Glass and frame reliability

3.2 mm coated tempered front glass with an anodized aluminum alloy frame.

Low-light response

Designed for improved output under low-irradiance conditions.

Temperature performance

Pmax temperature coefficient: -0.30%/°C.

Quality & Certification

PRODUCT TEST STANDARDS

IEC 61215 / 61730 · IEC 62804 (PID)
IEC 61701 (salt) · IEC 62716 (ammonia)
IEC 60068-2-68 (sand)

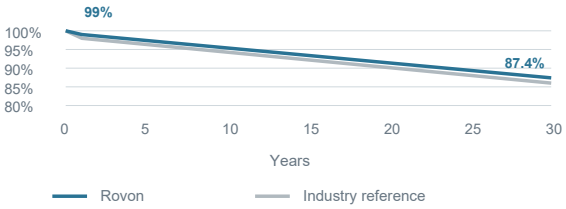
MANAGEMENT SYSTEM STANDARDS

ISO 9001:2015 · ISO 14001:2015
ISO 45001:2018 · ISO 50001:2011
IEC TS 62941-2016

Warranty

15 YEARS
Materials

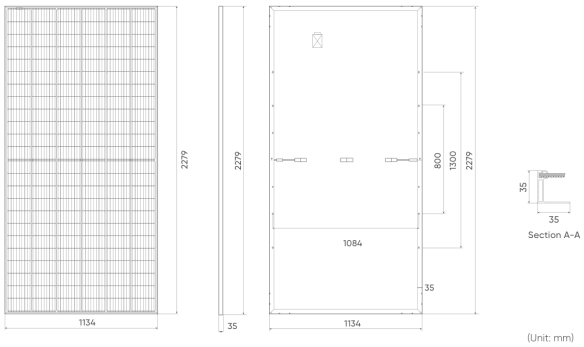
30 YEARS
Power output



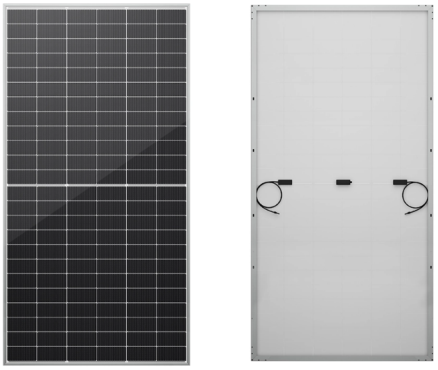
ROVE N1 / RN1 72M 575-595W

Technical specifications

Drawings



Front / Rear



Mechanical characteristics

PARAMETER	VALUE
Solar cells	N-type Mono
No. of cells	144 (6 × 24)
Dimensions	2279 × 1134 × 35 mm
Weight	27.5 kg
Front glass	3.2 mm coated tempered glass
Frame	Anodized aluminum alloy frame
Junction box	IP68 rated (3 bypass diodes)
Output cables	4 mm², +300 mm / -300 mm; length customizable
Connectors	MC4 compatible
Wind / snow load	2400 Pa / 5400 Pa
Packaging	31 pcs / box; 155 pcs / 20'GP; 620 pcs / 40-foot high-cube

Operating characteristics

PARAMETER	VALUE
Module temperature	-40°C to +85°C
Max. system voltage	1500 V DC (IEC)
Max. series fuse	25 A
Power tolerance	0 to +5 W

Temperature characteristics

PARAMETER	VALUE
NMOT	45 ±2°C
Pmax coefficient	-0.30%/°C
Voc coefficient	-0.25%/°C
Isc coefficient	+0.046%/°C

Electrical parameters / STC

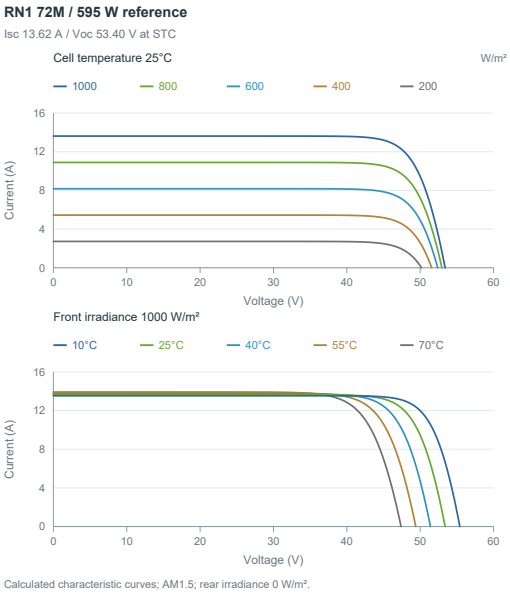
POWER CLASS	575	580	585	590	595
Pmax (W)	575	580	585	590	595
Vmpp (V)	44.83	45.03	45.23	45.46	45.69
Impp (A)	12.83	12.90	12.94	13.00	13.03
Voc (V)	52.60	52.80	53.00	53.20	53.40
Isc (A)	13.46	13.50	13.54	13.58	13.62
Efficiency (%)	22.25	22.44	22.64	22.83	23.02

Electrical parameters / NMOT

POWER CLASS	575	580	585	590	595
Pmax (W)	435	439	443	447	451
Vmpp (V)	43.15	43.34	43.54	43.72	43.90
Impp (A)	10.08	10.12	10.16	10.21	10.28
Voc (V)	50.03	50.22	50.41	50.60	50.79
Isc (A)	10.59	10.63	10.66	10.69	10.72

1. STC: irradiance 1000 W/m²; AM 1.5; cell temperature 25°C according to EN 60904-3.
2. NMOT: irradiance 800 W/m²; wind speed 1 m/s; ambient temperature 20°C.
3. Pm tolerance: 0 to +5 W; power measurement uncertainty: ±3%. Voc, Isc, Vm and Im deviation: ±3%.

I–V curves



Calculated characteristic curves; AM1.5; rear irradiance 0 W/m².