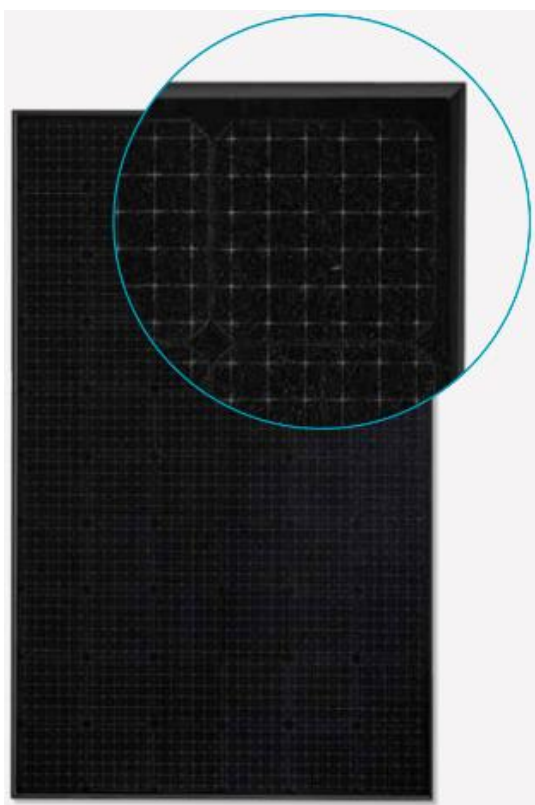




R-ENERGY
YOUR POWER/R-ENERGY

R-ENERGY 340-360Wp Solar panel REM4

Product Overview



MAXIMUM KWH YIELD

- PERC solar cells have a wider spectral sensitivity, which means more kWh are generated, also in early morning and late evening
- DSM AntiReflection coating which optimizes the incidence light efficiency at lower insolation angles and has a proven transmission gain of 4%
- 3% more active surface due to the MWT back-contact technology

MICROCRACK SAFE

- The MWT back-contact design marginalizes the effect of microcracks and hotspots to an absolute minimum. Internal redundancy is optimally guaranteed with 61 active contact points per cell (3660 at panel level) compared to a limited number of busbars

MINIMAL LIGHT INDUCED DEGRADATION (LID)

- Technological advances in cell design and cell performance result in exceptionally low LID impact

BETTER SUSTAINABILITY

- The fully integrated back-sheet from DSM is fluor and PFAS free and protects the module against PID and weather influences

EASY TO INSTALL

- Lightweight and handy size for one person installation
- Risk of breakage and damage is minimized by the unique Renergy framing protectors

SUSTAINABLE COMPOSITION

- Cadmium-free, lead-free cell compound, fluorine-free (back-sheet, junction box and cables), PFAS-free (back-sheet)

SMALL ROOF WITH HIGH ENERGY YIELD

Due to the minimum LID and PID, the degradation is a maximum of 2% in the first year and 0.4% in subsequent years.

Resulting in a higher kWh yield until the end of its lifespan.

ELECTRICAL SPECIFICATIONS (STC)

Energy generation per module	kWh/year	352	357	362	367	372
Maximum power	Pmax (Wp)	340	345	350	355	360
Power tolerance	Pn (%)	0 / +3%				
Open circuit voltage	Voc (V)	40,4	40,45	40,5	40,55	40,6
Short circuit current	Isc (A)	10,44	10,47	10,51	10,54	10,58
Maximum power voltage	Vmpp (V)	33,4	33,5	33,6	33,7	33,8
Maximum power current	Impp (V)	10,18	10,3	10,42	10,54	10,66
Module efficiency	%	21,3	21,6	21,9	22,2	22,5
Maximum system voltage	(V)	1000				
Maximum series fuse rating	(A)	15				



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MECHANICAL SPECIFICATIONS

Module dimensions 1683mm x 1023mm x 33mm

Cell dimensions 162,75mm x 162,75mm; 60 solar cells per module

Weight 17,6 kg

Cell interconnection Lead free (no ribbons)

Glass 3,2 mm hardened safety glass, high transmission, AR coating DSM

Cell type Monocrystalline silicon PERC Metal Wrap Through (MWT)

Encapsulation foil EVA with improved photo-thermal stability

Back-sheet Endurance climate barrier based on 100% recyclable high-grade PET, PFAS and fluorine free

Frame Black anodized aluminium with sloped edges for minimal dirt build-up

Junction box IP-67 with 3 by-pass diodes, double isolated 4mm² solar cable with Staubli MC-4 connectors

TEMPERATURE RATINGS

Nominal Module Operating

Temperature (NMOT) 43°C ±2

Temperature coefficient Voc β -0,28 %/°C

Temperature coefficient Isc α 0,06 %/°C

Temperature coefficient Pmax γ -0,36 %/°C

CRITERIA

IEC 61215 Electrical specifications

Connectors, cables, diodes

Power, hotspots, irradiance

PID, hail, by-pass, leakage current

IEC 61730 Product safety:

Temperature, humidity, UV

Mechanical and fire safety

Impulse voltage

I/V CURVES AT DIFFERENT IRRADIANCE

