

Cat5 Building Systems LLC. DYNAMIQ

LIGHTWEIGHT MWT PV MODULE - MONO BLACK PERC



MAXIMUM KWH YIELD

- MWT PERC solar cells have a wider spectral sensitivity, which means that more kWh is generated, also in early morning and late evening
- Very high scratch resistance of UV and hydrolysis
- Sustainable recycled and recyclable raw materials
- 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 60 active contact points per cell (3660 at panel level) compared to a limited number in panels with 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, fluor and PFAS free, back-sheet protects the module against PID and weather influences



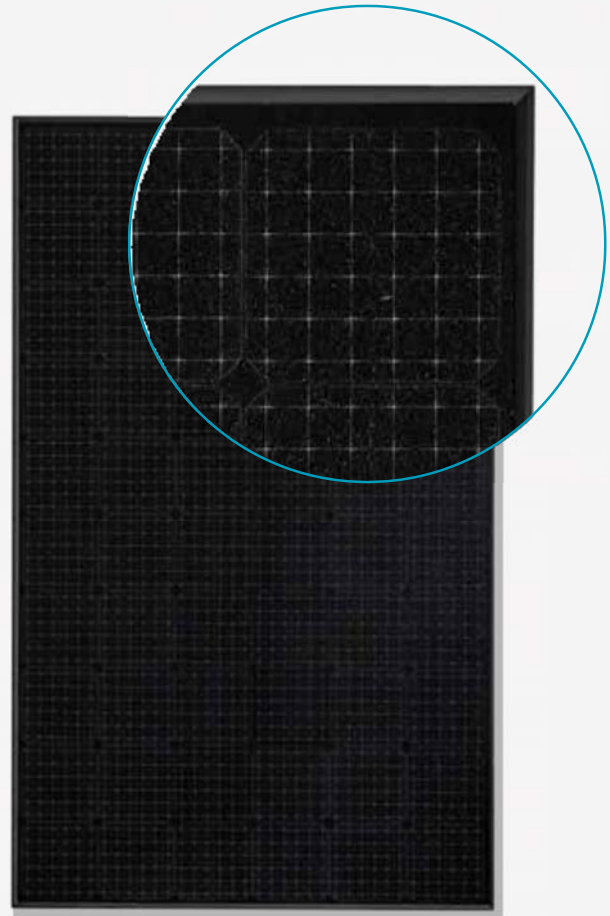
EASY TO INSTALL

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



SUSTAINABLE COMPOSITION

- Cadmium-free, lead-free cell compound, fluorine-free (back-sheet and cables junction box), PFAS-free (back-sheet), lightweight components from recycled PET and recyclable polyester

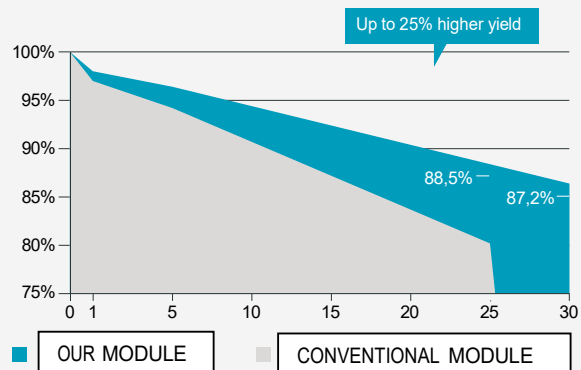


LOW WEIGHT, HIGHER PERFORMANCE

Due to the minimum LID and PID, the degradation is a maximum of 1% in the first year and 0.4% in subsequent years. Resulting in a higher kWh yield until the end of its lifespan.

DEVELOPMENT / PRODUCTION

Developed in Canada and produced in the Netherlands with European intelligent robotics. Industry 4.0 standards guarantee a consistently high quality.



ELECTRICAL SPECIFICATIONS (STC)

DYNAMIQ

Energy generation per module	kWh/year	341	346	352	357	362
Maximum power	Pmax (Wp)	330	335	340	345	350
Power tolerance	Pn (%)	0 / +3%				
Open circuit voltage	Voc (V)	40,9	41,2	41,4	41,7	41,9
Short circuit current	Isc (A)	10,27	10,7	10,8	11	11,1
Maximum power voltage	Vmpp (V)	33,8	34	34,1	34,3	34,5
Maximum power current	Impp (V)	9,77	10,38	10,49	10,61	10,73
Module efficiency	%	20,6	20,9	21,3	21,6	21,9
Maximum system voltage	(V)	1000				
Maximum series fuse rating	(A)	15				

MECHANICAL SPECIFICATIONS

Module dimensions	1690mm x 1030mm x 35mm
Cell dimensions	162,75mm x 162,75mm; 60 solar cells per module
Weight	8,9kg
Cell interconnection	Lead free (no ribbons)
Top-sheet	Recyclable UV stabilized PET
Cell type	Monocrystalline silicon PERC Metal Wrap Through (MWT)
Encapsulation foil	Thermoplastic polyolefin elastomer material (POE)
Back-sheet	Endurance climate barrier based on 100% recyclable high grade PET, PFAS and fluorine free
Frame	Black PVC
Junction box	IP-67 with 3 by-pass diodes, double isolated 4mm ² solar cable with 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

ENVIRONMENTAL CRITERIA

Wind/Snow load 2400Pa

