

DC Solar Systems DYNAMIQ

LIGHTWEIGHT SOLAR PANEL— BLACK MONO PERC MWT

DC Solar Systems DynamiQ is a unique, light weight solar panel that complies with all quality standards. The perfect solar panel to install on roofs that can't carry the weight of standard heavy solar panels.

LOW WEIGHT, HIGHER PERFORMANCE

- The glass-free design and the use of special materials ensures an extreme low weight of only 4,08 kg/m²
- The aluminium frame allows for flexibility in installation: correct tilt, ventilation underneath the panels, and therefore higher performance per Wp
- Higher yield in low-angle situation (morning/evening, winter) due to the wider spectral sensitivity of MWT PERC solar cells in combination with the supermatt antireflective nano-texture
- Very high scratch, UV and hydrolysis resistance.

MICROCRACK SAFE

- The MWT back-contact design marginalizes the effect of microcracks and hotspots to an absolute minimum. Internal redundancy is optimally guaranteed with 66 active contact points per cell (3960 at panel level).

MINIMAL LIGHT INDUCED DEGRADATION (LID)

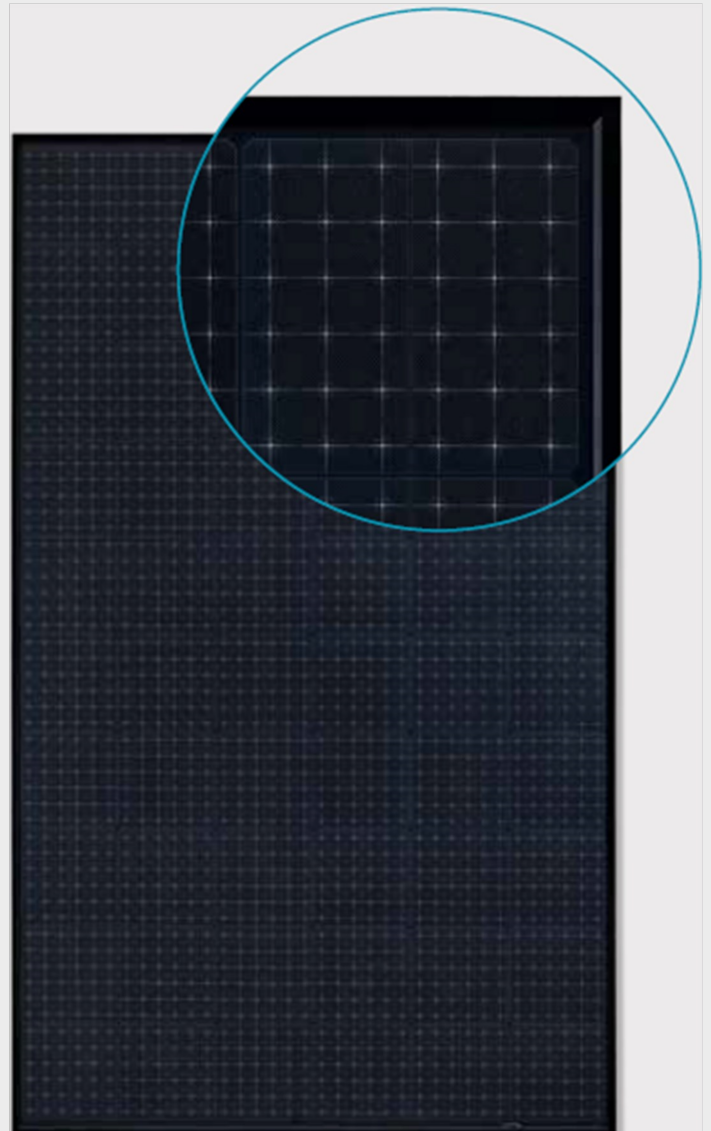
- Technological advances in cell design and cell performance result in exceptionally low LID impact.
- Due to the minimum LID and PID, the degradation is a maximum of 2.5% in the first year and 0.4% in subsequent years. Resulting in a higher kWh yield until the end of its lifespan.

BETTER SUSTAINABILITY

- Cadmium-free, lead-free cell compound, fluorine free (backsheet and cables junction box), PFAS free (backsheet), lightweight components from recyclable PET.

PREMIUM WARRANTY

DC Solar Systems offers up to 15 year product warranty on the solar panels and 25 years on the higher power output.



PRODUCED IN THE NETHERLANDS

Developed and produced in Westknollendam, just north of Amsterdam, with Dutch know-how and European intelligent robotics. Industry 4.0 standards guarantee a consistently high quality.

ELECTRICAL SPECIFICATIONS (STC)¹

DC Solar Systems DYNAMIQ

		M4 version				M6 version					
Maximum power	P _{max} (Wp)	315	320	325	330	335	340	345	350	355	360
Power tolerance	P _n (%)	0 / +3%									
Open circuit voltage	V _{oc} (V)	40,5	40,6	40,7	40,8	41,0	41,1	41,2	41,3	41,4	41,5
Short circuit current	I _{sc} (A)	10,1	10,2	10,3	10,4	10,55	10,6	10,65	10,7	10,75	10,8
Maximum power voltage	V _{mpp} (V)	33,05	33,2	33,4	33,55	33,65	33,8	34,0	34,2	34,4	34,6
Maximum power current	I _{mp} (A)	9,55	9,65	9,75	9,85	9,96	10,06	10,15	10,24	10,32	10,41
Maximum system voltage	V	1000									
Maximum series fuse rating	A	15									

¹ STC (Standard Test Conditions: irradiation 1000 W/m²—AM 1.5—25° C cell temperature)

MECHANICAL SPECIFICATIONS

	M4 version	M6 version
Module dimensions	1678 x 1024 x 32,7 mm	1712 x 1044 x 32,7 mm
Cell dimensions	161,7 x 161,7 mm	166mm x 166mm; 60 solar cells per module
Weight	7 kg	7,3 kg
Cell interconnection	Lead free (no ribbons)	
Top-sheet	Recyclable UV stabilized antireflective PET	
Cell type	Monocrystalline silicon PERC Metal Wrap Through (MWT)	
Encapsulant	Thermoplastic polyolefin elastomer material (TPO)	
Back-sheet	Endurans™ 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 4mm ² solar cable (1000 mm) with Stäubli MC-4 connectors	

TEMPERATURE RATINGS

Nominal Module Operating Temperature (NMOT)	43°C ±2
Temperature coefficient Voc β	-0.28%/°C
Temperature coefficient I _{sc} α	0.06%/°C
Temperature coefficient P _{max} γ	-0.36%/°C

TEST CRITERIA

IEC 61215-2016	Electrical specifications: Connectors, cables, diodes, power, hotspots, irradiance, PID, hail, by-pass, leakage current
IEC 61730-2016	Product safety: Temperature, humidity, UV, impulse voltage
Mechanical load	2400 Pa