

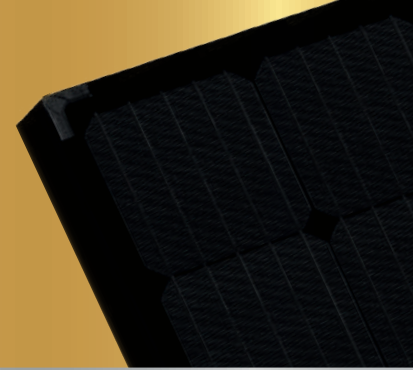


Evolution ULTRAMAX

EVO 345MB-66

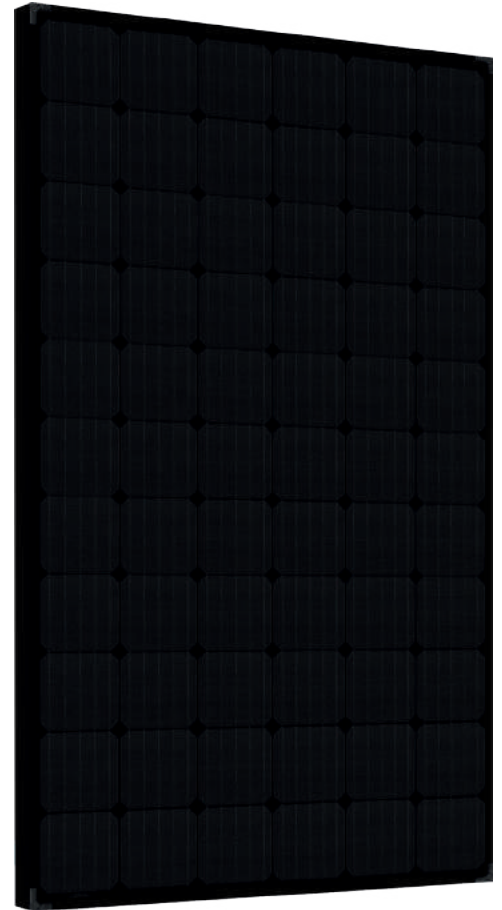
Monocrystalline Solar Module

WITH HIGH EFFICIENCY PERC TECHNOLOGY



High-efficiency PERC cell technology

- ✓ Minimised Surface Recombination speed - to improve cell voltage and current
- ✓ Increased internal reflectivity - to improve cell current
- ✓ Up to 10% more power per m2 compared to standard modules
- ✓ Excellent low light performance - to ensure optimum generation year round
- ✓ Maintains temperatures to ensure energy generation is more efficient



Lifetime

Performance & product warranty



Performance

Good performance even under low light conditions



Reliability

Strict selection of raw materials and strict quality control ensure reliability



Smart-ready

Optional smart-ready design. Easy upgrade into smart solar module solution



New 66-cell technology

Latest cell tech with max efficiency



5 Busbars

Improved performance, decreases natural loss



Ultrablack

Great aesthetic look



Ultra reflective backing sheet

Increases performance, maximises solar irradiance capture



Module Efficiency

19.34% Module Efficiency



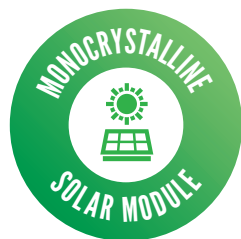
Limited Peak Power Warranty -

12 years @92%
25 years @85%
30 years @80%



Water Drainage Corners

Avoids dirt buildup, unique design structure, best ever product quality



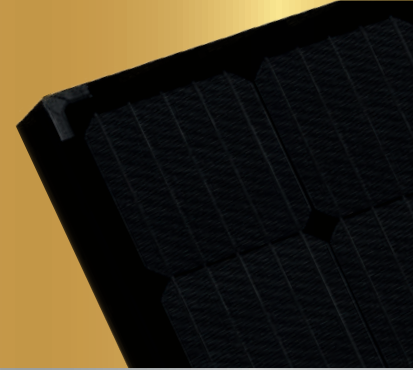


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Electrical Performance

Module type		Perlight XL PLM-345MB-66	
Power output	P_{max}	Wp	345
Voltage at Pmax	V_{mpp}	V	36.86
Current at Pmax	I_{mpp}	A	9.36
Open-circuit voltage	V_{oc}	V	44.58
Short-circuit current	I_{sc}	A	9.89
Module Efficiency	Eff.	%	19.34

STC: 1000W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3.
Power measurement uncertainty is within +/- 5%

Thermal Characteristics

Nominal operating cell temperature	NOCT	°C	45±2
Temperature coefficient of Pmax	ν	%/°C	-0.40
Temperature coefficient of Voc	β_{Voc}	%/°C	-0.30
Temperature coefficient of Isc	α_{Isc}	%/°C	0.06

Operative Conditions

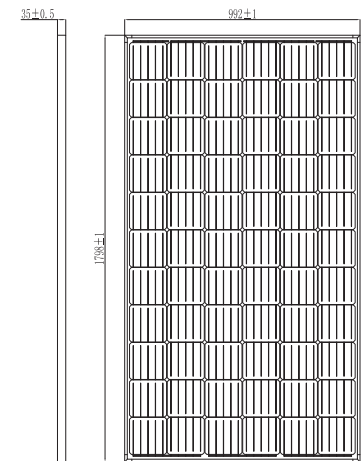
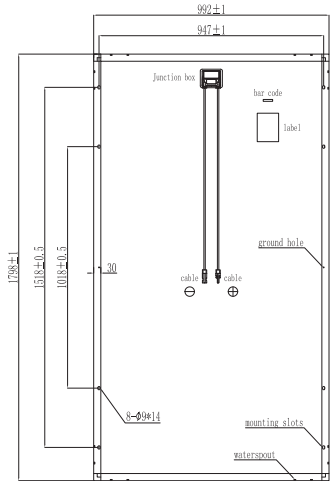
Max. system voltage	1000V _{DC}
Limiting reverse current	15A
Operating temperature range	-40°C to 85°C
Max. static load front (e.g., snow)	5400Pa
Max. static load back (e.g., wind)	2400Pa

Mechanical Character

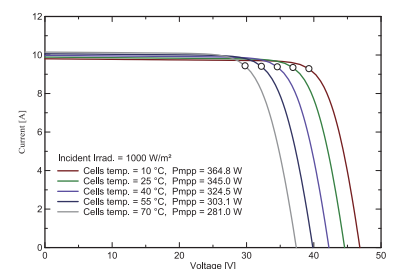
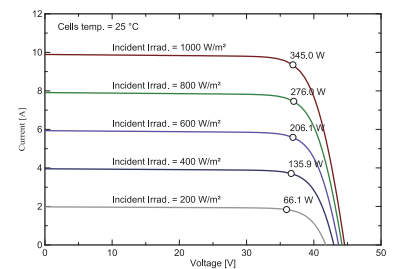
Front cover (material / thickness)	low-iron tempered glass / 3.2mm
Backsheet (color)	black
Cell (quantity / material / dimensions)	66 / monocrystalline silicon /156.75×156.75mm
Frame (material / color)	anodized aluminum alloy / black
Junction box (protection degree)	≥ IP67
Cables & Plug connectors	1200mm / 4mm ² & MC4 compatible / IP67
Module Dimensions (L / W / H)	1798mm x 992mm x 35mm
Module Weight	20kg

Packing Details

Container	20'GP	40'HQ
Pieces per pallet	60	66
Pallets per container	6	12
Pieces per container	360	792



Electrical Curves:



Made by Perlight - Outfeng Road, Muyu Administration Area, Zeguo Town, Wenling City, Zhejiang Province, China, 317521



MCSBBA0005

*Lifetime warranty subject to terms & conditions.
These are available upon request