



EVO SUPER MAX SERIES. 455

EVO-PLM-455H8MB-120

All Black Monocrystalline Solar Module
WITH HIGH EFFICIENCY PERC TECHNOLOGY

Project
Better Energy



HIGH PANEL EFFICIENCY
Innovative structure, low-temperature adhesive bonding, high-density layout.

OPTIMUM PERFORMANCE
Fantastic panel performance, even in low light conditions.

ULTRA BLACK APPEARANCE
Fantastic aesthetic, with a fully black sleek appearance.

NEW 455W
EXCELLENT LOW LIGHT PERFORMANCE



SOLAR PANEL FEATURES

	MAXIMUM SAFETY & RELIABILITY Low operating temperature, high pressure resistance, and no hidden welding crack.
	PERC CELL TECHNOLOGY By utilising PERC cell technology, our panels have increased energy conversion efficiency.
	ECO-FRIENDLY BUILD Adhering to a green philosophy, we use no fluorine and very low lead materials.
	SMART-READY Optional smart-ready design. Easy to upgrade into smart solar module solution.

INSURANCE **PKCC**

TECHNICAL SPECIFICATIONS

Electrical Characteristics (STC)

Maximum Power at STC (Pmp)	455
Maximum Power Voltage (Vmp)	34.84
Maximum Power Current (Imp)	13.06
Open Circuit Voltage (Voc)	41.33
Short Circuit Current (Isc)	13.89
Module Efficiency at STC (nm)	21.01%

STC: 1 000W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum, Power tolerance: ± 5%

Electrical Characteristics (NMOT)

Maximum Power at STC (Pmp)	343.8
Maximum Power Voltage (Vmp)	32.62
Maximum Power Current (Imp)	10.54
Open Circuit Voltage (Voc)	38.69
Short Circuit Current (Isc)	11.12

NOCT: 800W/m² irradiance, 20°C environment temperature, 1 m/s wind speed.

Mechanical Specifications

Solar Cells	PERC Mono crystalline 166x83mm
External Dimensions	1905x1134x35mm(LxWxH)
Front Glass	3.2mm AR coating tempered glass, low iron
Weight	23Kg±5%
Output Cable	4.0 mm ² , cable length 1100mm
Connector	MC4 Compatible
Junction Box	IP 68, 3 diodes
Frame	Anodized aluminium alloy

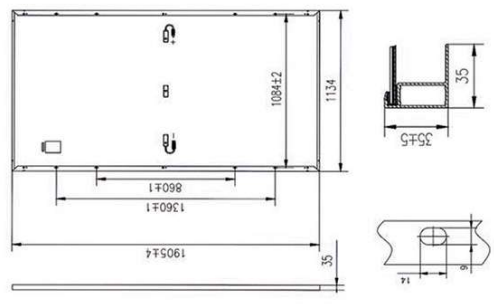
Temperature Characteristics

Isc Temperature Coefficient	+0.05%/°C
Voc Temperature Coefficient	-0.30%/°C
Pmax Temperature Coefficient	-0.35%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Operating Characteristics

Max. system voltage	DC1500V
Limiting reverse current	25A
Operating temperature range	-40°C~85°C
Max. static load front (e.g., snow)	3600Pa
Max. static load back (e.g., wind)	1600Pa
Max. hailstone impact (diameter / velocity)	25mm / 23m/s

Drawings



I-V Curve

