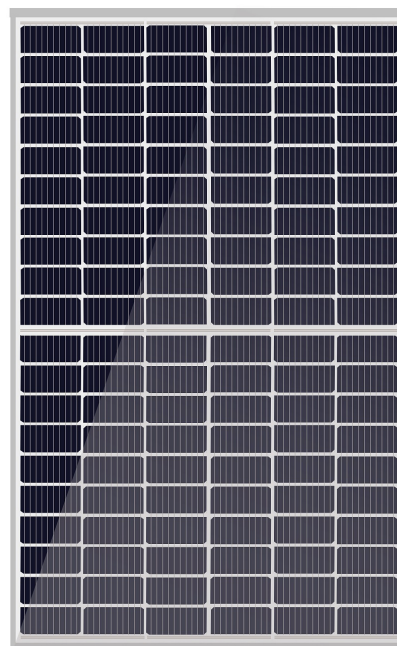
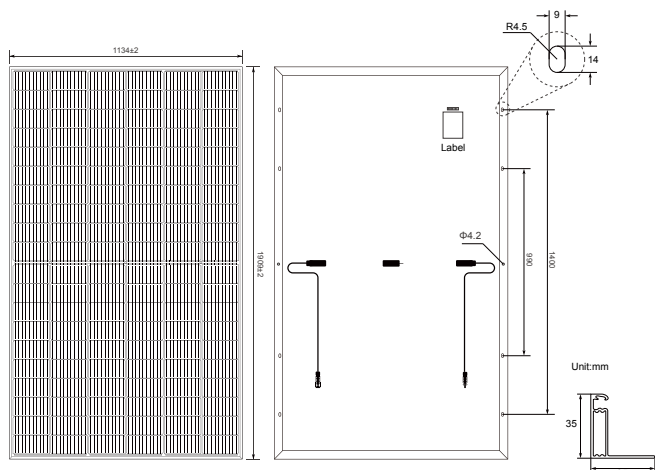


AL440~460M10 440-460Watt

182mm 120Cells Solar PV Module



All Dimensions in mm
The above drawing is a graphical representation of the product.
For engineering quality drawings please contact Aoli solar.

Electrical Characteristics (STC/NOCT)

Module Type	AL440M10		AL445M10		AL450M10		AL455M10		AL460M10	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power- Pmax(W)	440	333	445	337	450	341	455	345	460	349
Open Circuit Voltage - Voc(V)	40.98	38.61	41.20	38.81	41.41	39.03	41.63	39.25	41.84	39.47
Short- Circuit Current - Isc(A)	13.66	10.99	13.74	11.04	13.82	11.09	13.90	11.14	13.99	11.19
Voltage at Pmax -Vmp(V)	34.44	32.09	34.62	32.32	34.80	32.54	34.98	32.77	35.16	32.99
Current at Pmax - Imp(A)	12.78	10.38	12.85	10.43	12.93	10.48	13.01	10.53	13.08	10.58
Module Efficiency -ηm(%)	20.3	/	20.4	/	20.6	/	20.8	/	21.1	/
Power Tolerance(W)	(0, +4.99W)									
Maximum System Voltage(V)	1500Vdc (IEC / UL)									
Maximum Series Fuse Rating (A)	25A									

STC : Irradiance 1000W/m², Cell Temperature 25 C, Air Mass 1.5

NOCT : Irradiance 800W/m², Ambient Temperature 20 C, Air Mass 1.5, Wind Speed 1m/s

Mechanical Specifications

External Dimensions	1909x1134x35mm
Weight	24kg
Solar Cells	Mono crystalline 182mm (2x60pcs)
Front Glass	AR Coated 3.2 mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4.0mm ² , 30cm (+), 30cm (-), length can be customized
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa

Temperature Characteristics

Pmax Temperature Coefficient	-0.350%/C
Voc Temperature Coefficient	-0.275%/C
Isc Temperature Coefficient	+0.045%/C
Operating Temperature	-40 ~ +85 C
Nominal Operating Cell Temperature(NOCT)	45±2 C

Packing Configuration

	1909x1134x35mm	
Container	20'GP	40'HQ
Pieces per Pallet	31	31
Pallets per Container	5	24
Pieces per Container	155	744

Current-Voltage & Power-Voltage Curves (AL460M10)

