

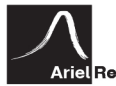


## MLS350M10C MLS355M10C MLS360M10C MLS365M10C

Melana is a leading professional supplier in the renewable energy industry, specializing in the production and distribution of high-quality PV modules, completed PV kits, and energy storage solutions. With a commitment to sustainable energy solutions, we strive to provide innovative and reliable products to meet the growing global demand for clean and efficient power generation.

With a focus on quality, innovation, and customer satisfaction, we strive to empower individuals, businesses, and communities with reliable and sustainable energy solutions. By harnessing the power of the sun and embracing renewable energy, we are driving the transition towards a greener and more sustainable future.

Melana series of PV modules are designed for residential and small commercial installations with compact sizes and aesthetic appearances.



### Roofing Aesthetics with multiple colours

Melana series S-has been designed with aesthetic in mind, the multiple colourful glasses looks well integrated to roof tiles or building ,creates on modern and improved aesthetic.



### High efficiency Topcon Cells

Built with highest efficiency of TOPcon solar cells to ensure the output are similar with regular colour modules.



### Longer life span with 25 years warranty

Built with high reliable raw-materials, shinson extended the warranty period up to 25 years for both performance and workmanship which is on top level of the industry for backsheet modules.



### Lower power degradation with more generation

Ensured PID resistance through cell process and module material control to help harvest more, guaranteed only 0.4% annual power degradation .

# MELANA Solar Modules

TOPcon / Colorful



## Electrical Data (STC)

Part Number	MLS350M10C	MLS355M10C	MLS360M10C	MLS365M10C
Peak Power Watts- $P_{MAX}(Wp)^*$	350	355	360	365
Power Output Tolerance	0/+5W			
Open Circuit Voltage- $V_{oc}(V)$	38.45	38.68	38.91	39.15
Short Circuit Current- $I_{sc}(A)$	11.40	11.49	11.58	11.67
Maximum Power Voltage- $V_{MPP}(V)$	33.18	33.37	33.58	33.77
Maximum Power Current- $I_{MPP}(A)$	10.55	10.64	10.73	10.81
Panel Efficiency(%)	17.9	18.2	18.4	18.7

STC :Irradiance 1000w/m<sup>2</sup>, Cell Temperature 25°C \*Measure tolerance:±3%

## Electrical Data (NOCT)

Maximum Power- $P_{MAX}(Wp)^*$	264	267	271	275
Open Circuit Voltage- $V_{oc}(V)$	36.50	36.72	36.94	37.17
Short Circuit Current- $I_{sc}(A)$	9.33	9.40	9.47	9.55
Maximum Power Voltage- $V_{MPP}(V)$	31.23	31.41	31.61	31.78
Maximum Power Current- $I_{MPP}(A)$	8.44	8.52	8.59	8.65

NOCT:Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

## Mechanical Data

External Dimensions	1722x1134x30mm
Weight	20.5kg
Solar Cells	TOPcon Monocrystalline 182mm (2x54pcs)
Front Glass	AR Coated 3.2 mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4.0mm <sup>2</sup> , 1200mm (+), 1200mm (-), length can be customized
Connector	MC4 Compatible

## Temperature Ratings

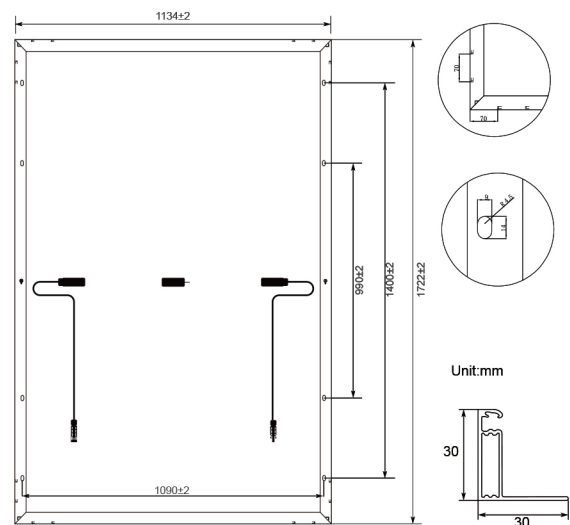
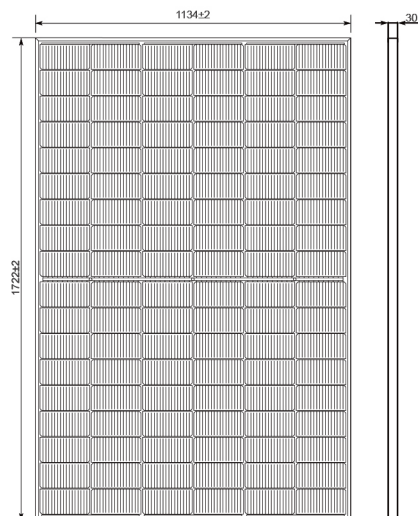
Nominal Operating Cell Temp.(NOCT)	45.0°C(±2°C)
Temperature Coefficient of $P_{MAX}$	-0.290%/°C
Temperature Coefficient of $V_{oc}$	-0.250%/°C
Temperature Coefficient of $I_{sc}$	+0.045%/°C

\* Do not connect Fuse in Combiner Box with two or more strings in parallel connection

## Packaging Configuration

Modules per box	36 pieces
Modules per 40'container	936 pieces

## Dimensions of PV Module(mm)



## Maximum Ratings

Operational Temperature	-40~+85 °C
Front/Rear Side Load	5400/2400pa
Max Series Fuse Rating	25A
Max System Voltage	1500V (IEC)
Fire Rating	Class 1(UN19177)

## Warranty

Product Workmanship Warranty	25 years
Output Power Warranty	25 years