

# SMALL MODULE

CUSTOMIZED OPTIONAL

# CETE SOLAR



## Photovoltaic Modules

Module	140W-160W 36CELLS					
Encapsulation	Glass/EVA/Cell/EVA/Backsheet					
Maximum Power Pmax	W	140	145	150	155	160
Maximum Power Voltage (Vmp)	V	18.40	18.40	18.60	18.80	19.00
Maximum Power Current (Imp)	A	7.61	7.88	8.06	8.24	8.42
Open Circuit Voltage (Voc)	V	22.08	22.08	22.32	22.56	22.80
Short Circuit Current (Isc)	A	9.13	9.46	9.68	9.89	10.11
Cell Efficiency	%	15.90	16.40	17.10	17.50	17.90
Module Efficiency	%	15.41	15.43	15.44	15.46	15.50
Tolerance	0+3%					
Max System Open Circuit Voltage	600V					
Diodes	2by-pass					
Dimension	1480*680*35mm					
Weight	12kg					
Operate Temperature Scope	-40/+85°C					
Relative Humidity	0~100%					
Frame Thinkness	35mm					
Frame Colour	Gold/Brown/Black/Silver					

Standard Test Conditions[STC]: irradiance 1,000 W/m<sup>2</sup>; AM 1.5G; module temperature 25°C. Measuring uncertainty of power is within ±3%. Tolerance of Pmp: 0~+3%. Certified in accordance with IEC61215, IEC61730-1/2.

## Temperature Coefficients

NOCT	45°C±2°C	
Short Circuit Current Temperature Coefficients	$\alpha(I_{sc})$	+0.045%/°C
Open Circuit Voltage Temperature Coefficients	$\beta(V_{oc})$	-0.292%/°C
Peak Power Temperature Coefficients	$\gamma(P_{max})$	-0.408%/°C
Nominal Operating Cell Temperature(NOCT) : 45°C±2°C		

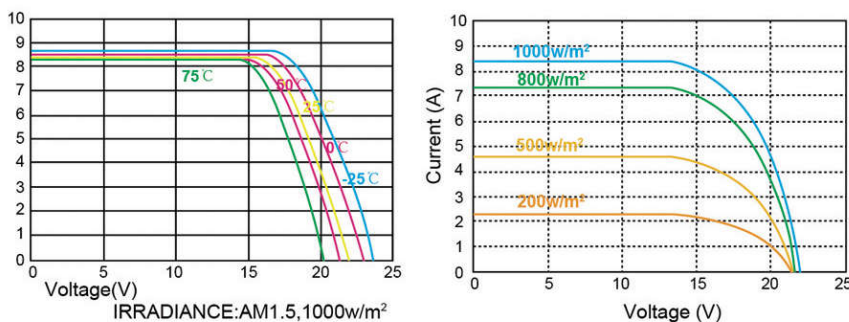
Output		
Cable 4.0mm <sup>2</sup> (TUV)	Length 900mm	Connector MC4 type

## Advantage

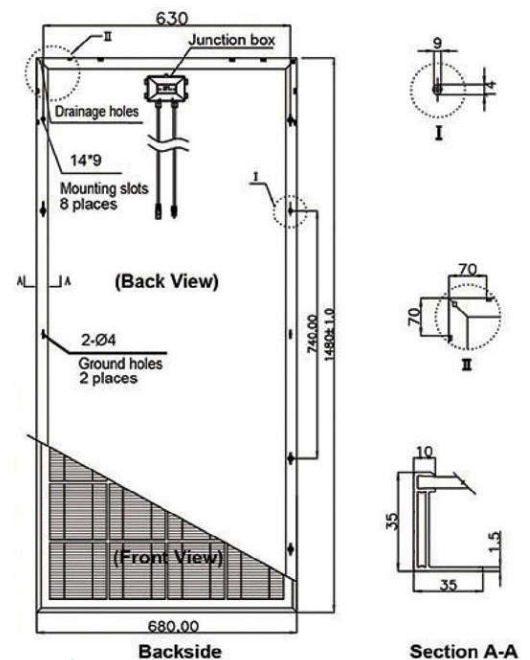
The Cetesolar modules consist of poly-crystalline high efficient silicon cells, which are individually characterized and electronically matched before interconnection and laminated with toughened glass, EVA and TPT of high quality.

After assembled with anodized aluminum alloy frame, cable and junction box with MC4 connectors, Cetesolar modules can be installed easily and work for a long period. At the same time, they can withstand the storm, strong wind and hail impact, etc.

## I-V Curves



## Dimensions



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