



## ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	435	324	440	328	445	332	450	335	455	339
Operating Voltage (Vmpp/V)	40.3	37.6	40.5	37.8	40.7	38.0	40.9	38.2	41.1	38.4
Operating Current (Impp/A)	10.80	8.62	10.87	8.67	10.94	8.73	11.01	8.78	11.08	8.84
Open-Circuit Voltage (Voc/V)	49.0	45.6	49.2	45.8	49.4	46.0	49.6	46.2	49.8	46.4
Short-Circuit Current (Isc/A)	11.33	9.15	11.40	9.20	11.47	9.26	11.54	9.32	11.61	9.37
Module Efficiency (%)	20.00		20.20		20.40		20.70		20.90	

STC: Irradiance 1000W/m<sup>2</sup>, Spectra at AM1.5, Module Temperature 25 °C. Power output tolerance: 0~+5W, Test uncertainty for Pmax: ±3%  
 NMOT: Irradiance 800W/m<sup>2</sup>, Spectra at AM1.5, Ambient Temperature 20 °C, Wind speed 1m/s

## MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline Silicon (9Busbar)
No. of Cells	144pcs in series (6*24)
Module Dimensions	2094*1038*35mm (82.44*40.87*1.38inches)
Weight	23.5kg (51.81lbs)
Front Glass	3.2mm AR Coating Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Output Cables	4mm <sup>2</sup> (IEC), 12AWG(UL) 300mm in Length or Customized Length
Connectors	T01/LJQ-3-CSY/MC4/MC4-EV02

## APPLICATION CONDITIONS

Maximum System Voltage	1000V/1500V/DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	20A
Safety Protection Class	Class II

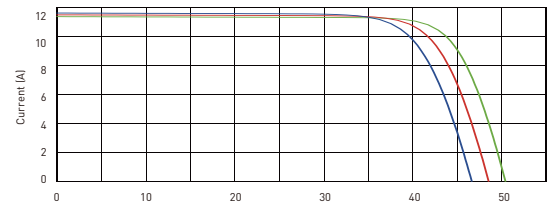
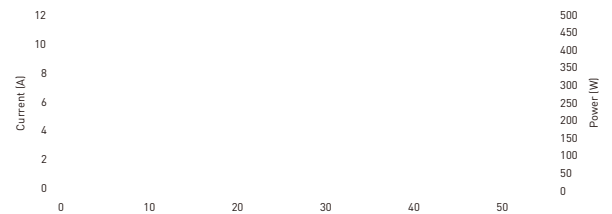
## TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	+0.043%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

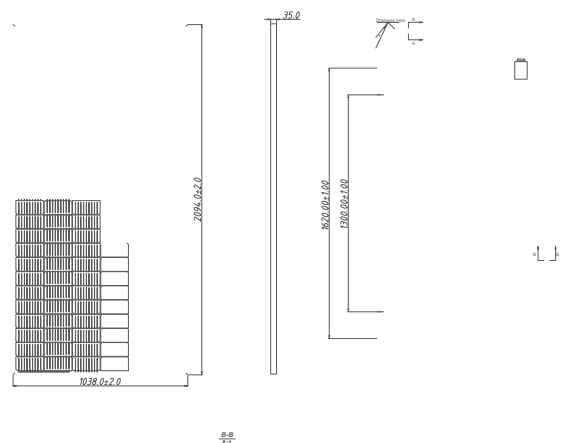
## PACKING CONFIGURATION

Pieces Per Pallet	31	31(USA)
Pieces Per Container(40'HQ)	715	682

## I-V CURVE



## TECHNICAL DRAWINGS



The specification and key features are described in this data sheet made available online and a separate data sheet. Designing innovation, R&D enhancement, and the TaleSun Solar Technology Co., Ltd. will continue to make an adjustment to the information provided to ensure the highest quality. Please contact us to obtain the information which shall be included in the binding contract made by the parties. All actions related to the change and alteration of the data sheet are described in the data sheet.