

ELECTRICAL CHARACTERISTICS AT STC*					
Maximum Power (P <sub>max</sub> )	435W	440W	445W	450W	455W
Open Circuit Voltage (V <sub>oc</sub> )	49.6V	49.8V	50.0V	50.2V	50.4V
Short Circuit Current (I <sub>sc</sub> )	11.10A	11.16A	11.22A	11.28A	11.34A
Voltage at Maximum Power (V <sub>mp</sub> )	41.2V	41.4V	41.6V	41.8V	42.0V
Current at Maximum Power (I <sub>mp</sub> )	10.56A	10.63A	10.70A	10.77A	10.84A
Module Efficiency (%)	19.90	20.13	20.36	20.58	20.81
Operating Temperature	-40°C to +85°C				
Maximum System Voltage	1000V DC/1500V DC				
Fire Resistance Rating	Class C				
Maximum Series Fuse Rating	25A				

\*STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5; Tolerance of P<sub>max</sub>: ±3%; Measurement Tolerance: ±3%

ELECTRICAL CHARACTERISTICS AT NOCT**					
Maximum Power (P <sub>max</sub> )	319W	323W	327W	331W	335W
Open Circuit Voltage (V <sub>oc</sub> )	45.4V	45.6V	45.8V	46.0V	46.2V
Short Circuit Current (I <sub>sc</sub> )	8.94A	8.99A	9.04A	9.09A	9.14A
Voltage at Maximum Power (V <sub>mp</sub> )	37.2V	37.4V	37.6V	37.8V	38.0V
Current at Maximum Power (I <sub>mp</sub> )	8.58A	8.64A	8.70A	8.76A	8.82A

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

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (EXAMPLE: AS-6M144-BHC-450W)					
Power Gain	P <sub>max</sub>	V <sub>oc</sub>	I <sub>sc</sub>	V <sub>mp</sub>	I <sub>mp</sub>
10%	495W	50.2V	12.42A	41.8V	11.85A
15%	518W	50.2V	13.00A	41.8V	12.40A
20%	540W	50.2V	13.55A	41.8V	12.92A
25%	563W	50.2V	14.12A	41.8V	13.47A
30%	585W	50.2V	14.68A	41.8V	14.00A

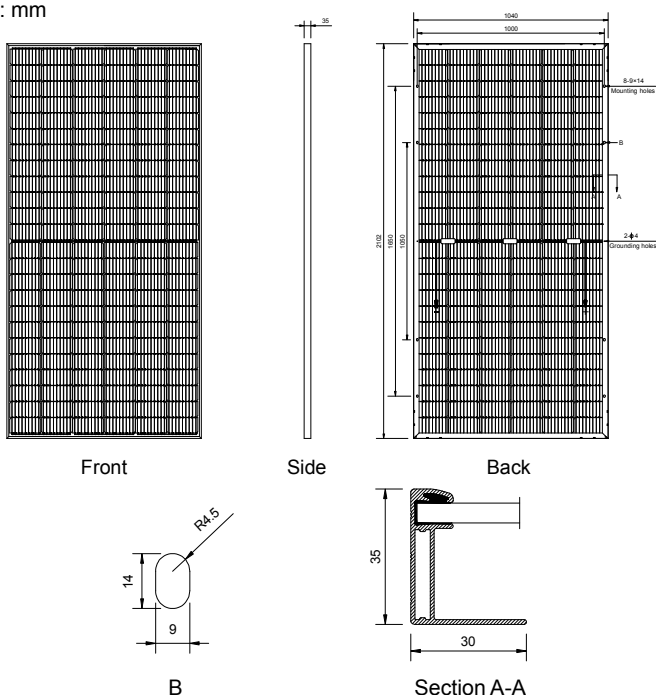
MECHANICAL CHARACTERISTICS	
Cell type	Monocrystalline bifacial
Number of cells	144 (6x24)
Module dimensions	2102x1040x35mm
Weight	24kg
Front cover	3.2mm tempered glass with AR coating
Back cover	Transparent backsheet
Frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cable	4mm <sup>2</sup> , Length: Portrait: 300mm; Landscape: 1400mm
Connector	MC4 compatible

TEMPERATURE CHARACTERISTICS	
Nominal Operating Cell Temperature (NOCT)	42°C±2°C
Temperature Coefficients of P <sub>max</sub>	-0.36%/°C
Temperature Coefficients of V <sub>oc</sub>	-0.30%/°C
Temperature Coefficients of I <sub>sc</sub>	0.05%/°C

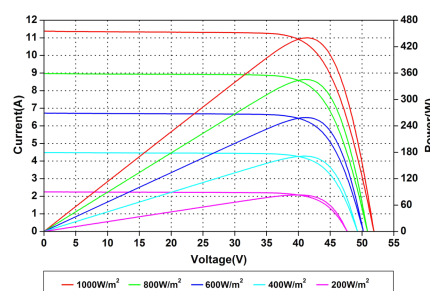
PACKAGING	
Standard packaging	31pcs/pallet
Module quantity per 20' container	155pcs
Module quantity per 40' container	715pcs(HQ)

**ENGINEERING DRAWINGS**

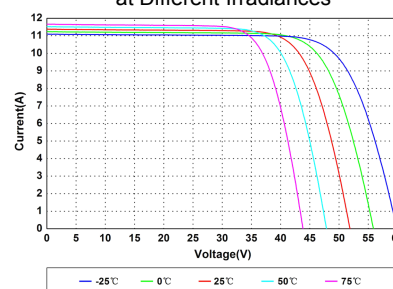
Unit: mm



**IV CURVES**



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures