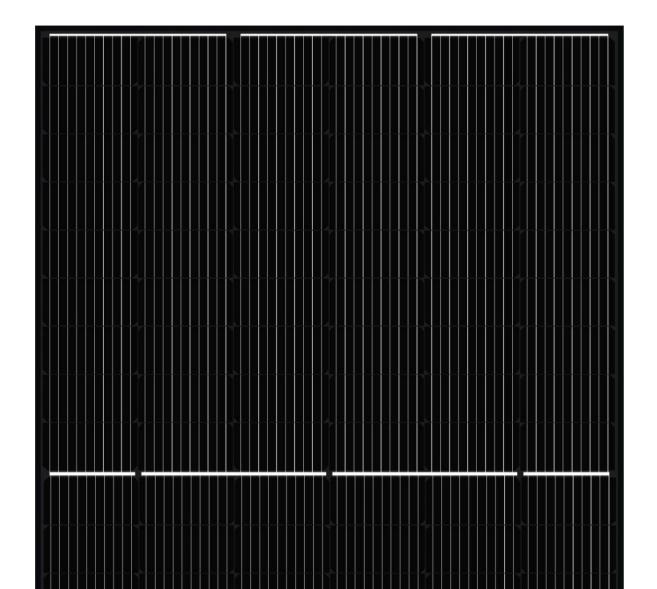


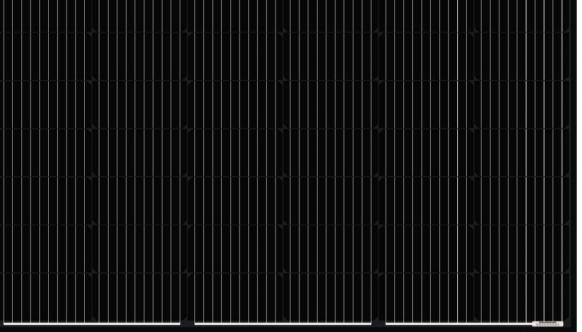
Unite Solar Technology Co., Ltd. www.unite-solar.com

182 Series MONOCRYSTALLINE

108 Half-Cells Solar Modules



400-415W BLACK



> Key Features

- R Advanced production equipment, International firstclass production technology, Achieved high module conversion efficiency 21.25%
- Rest in the second sec snow load. Full module passed wind pression (2400Pa) and snow load (5400Pa) test



High Power Output

- * Reduce BOS cost with higher power bin and 1000V/1500V system voltage
- * Back surface field
- * Selective emitter



Half-cell design brings higher efficiency

•New cell string layout and split J-box location to reduce the energy loss caused by shading between modules

- Resistant to salt
- spray and ammonia corrosion
- R Passing the certification test of photovoltaic standards
- Replication grade: A grade, Safe class: II, Fireproofing grade: C

> Comprehensive Products And System Certificates

IEC61215/IEC61730/UL1703/IEC61701 /IEC62716

ISO 9001: Quality Management System

ISO 14001: Environmental Management System

OHSAS 18001

- * Low thermal coefficients for greater energy production at high operating temperatures
- * Low cell connection power loss due to half-cell layout (108cells) Monocrystalline





Highly reliable due to stringent quality control

- * In-house testing goes well beyond certification requirements (UV, TC, HF, and many more)
- * PID resistant

Certified to withstand the most challenging environmental conditions

* 2400 Pa wind load * 5400 Pa snow load

Industry-leading linear warranty

GB/T 23001 -2017



*15 Year Product Warranty *25Year Linear Power Warranty 0.55% linear degradation rate 100% 98% Linear warranty gains more profits for clients Guaranteed Power 90% 84.8% 80% Years 15 20 5 10 25

Maximum Power (Pmax)	400W	405W	410W	415W
Open Circuit Voltage (Voc)	37.2V	37.4V	37.6V	37.8V
Short Circuit Current (Isc)	13.70A	13.76A	13.82A	13.88A
Voltage at Maximum Power (V _{mp})	31.0V	31.2V	31.4V	31.6V
Current at Maximum Power (Imp)	12.91A	12.99A	13.06A	13.14A
Module Efficiency (%)	20.49	20.74	21.00	21.25
Operating Temperature	-40°C to +85°C			
Maximum System Voltage	1000V DC/ 1500V DC			
Fire Resistance Rating	Class C (IEC61730)			
Maximum Series Fuse Rating		25	5A	

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5; Tolerance of Pmax: ±3%; Measurement Tolerance: ±3%

ELECTRICAL CHARACTERISTICSAT NOCT

ELECTRICAL CHARACTERIST	UUAT NUUT			
Maximum Power (Pmax)	300W	304W	308W	312W
Open Circuit Voltage (Voc)	34.2V	34.4V	34.6V	34.8V
Short Circuit Current (Isc)	11.10A	11.15A	11.20A	11.25A
Voltage at Maximum Power (Vmp)	28.2V	28.4V	28.6V	28.8V
Current at Maximum Power (Imp)	10.64A	10.71A	10.77A	10.84A

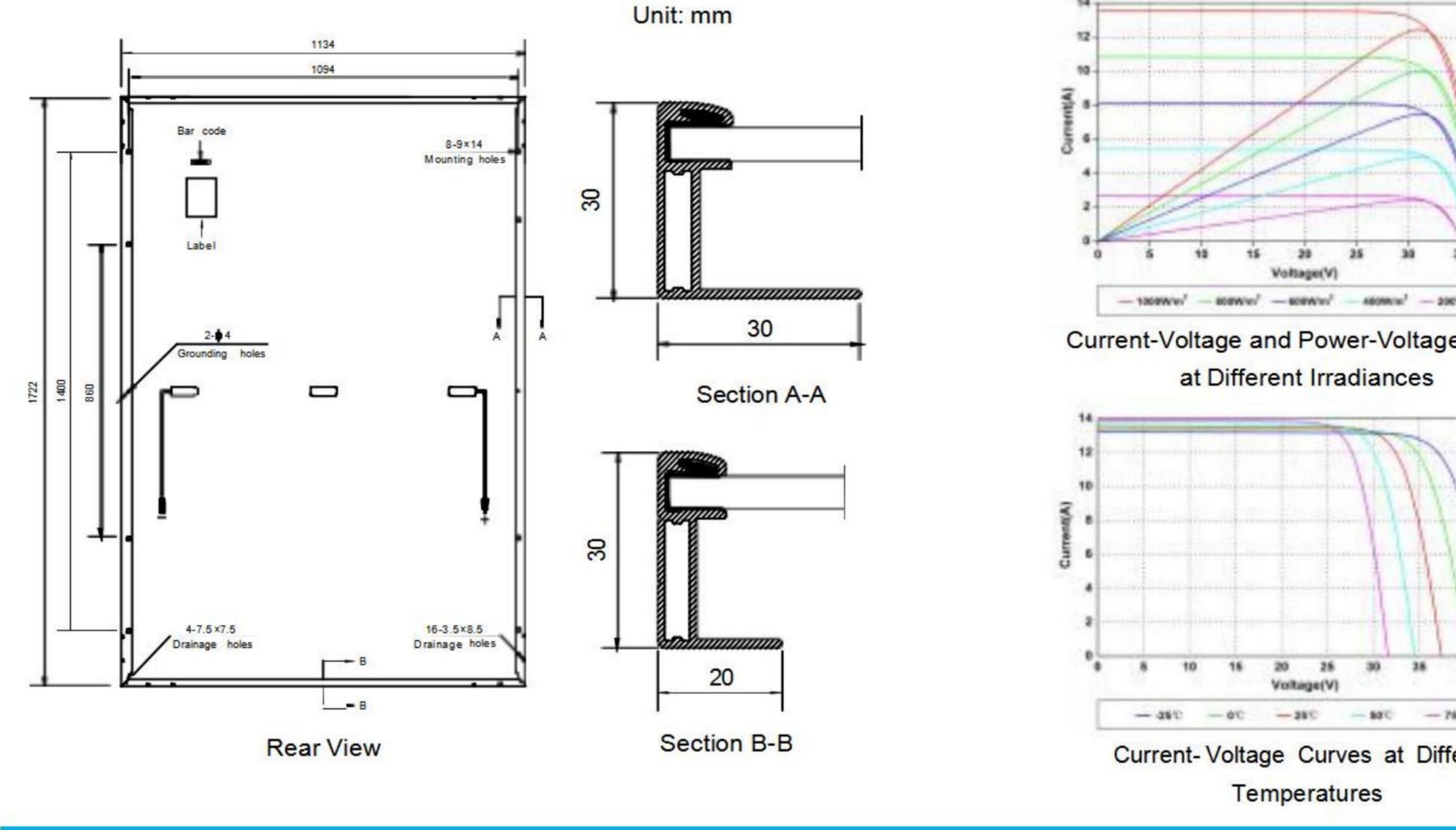
NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind Speed 1 m/s

MECHANICAL	CHARACTERISTICS
Cell type	Monocrystalline PERC 182*91mm
Number of cells	108 (6x18)
Module dimensions	1722x1134x30mm (67.80x44.65x1. 18inches)
Weight	21.5kg (47.4lbs)
Front cover	3.2mm (0. 13inches) tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cable	4mm ² (0.006inches ²), Portrait: 300mm (11.81inches);
	Landscape: 1200mm (47.24inches)
Connector	MC4 or MC4 compatible

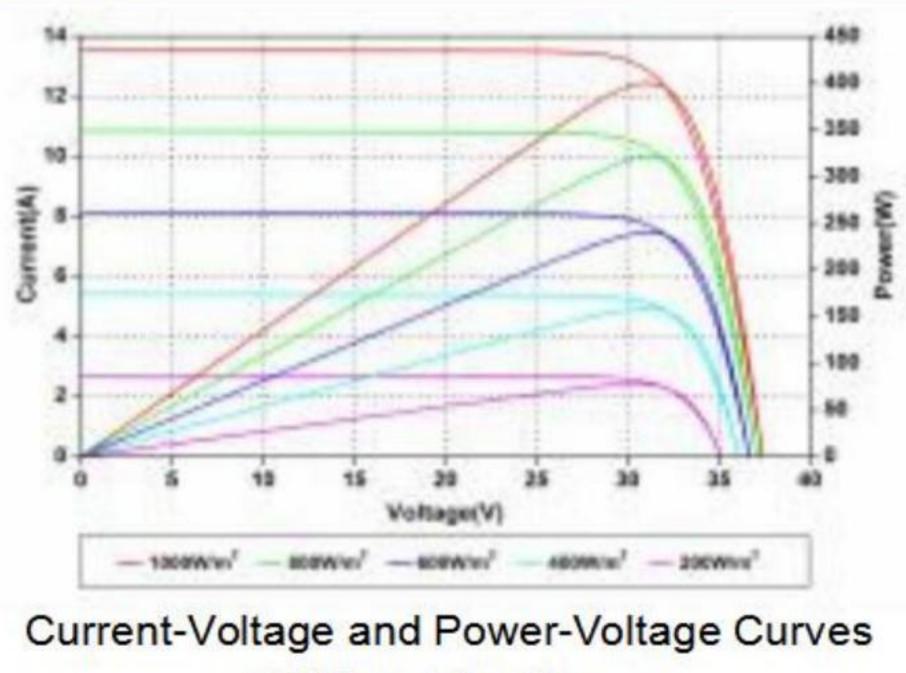
TEMPERATURE CHARACTERIST	ICS
Nominal Operating Cell Temperature (NOCT)	43°C±2°C
Temperature Coefficients of Pmax	-0.36%/°C
Temperature Coefficients of Voc	-0.28%/°C
Temperature Coefficients of Isc	0.05%/ °C

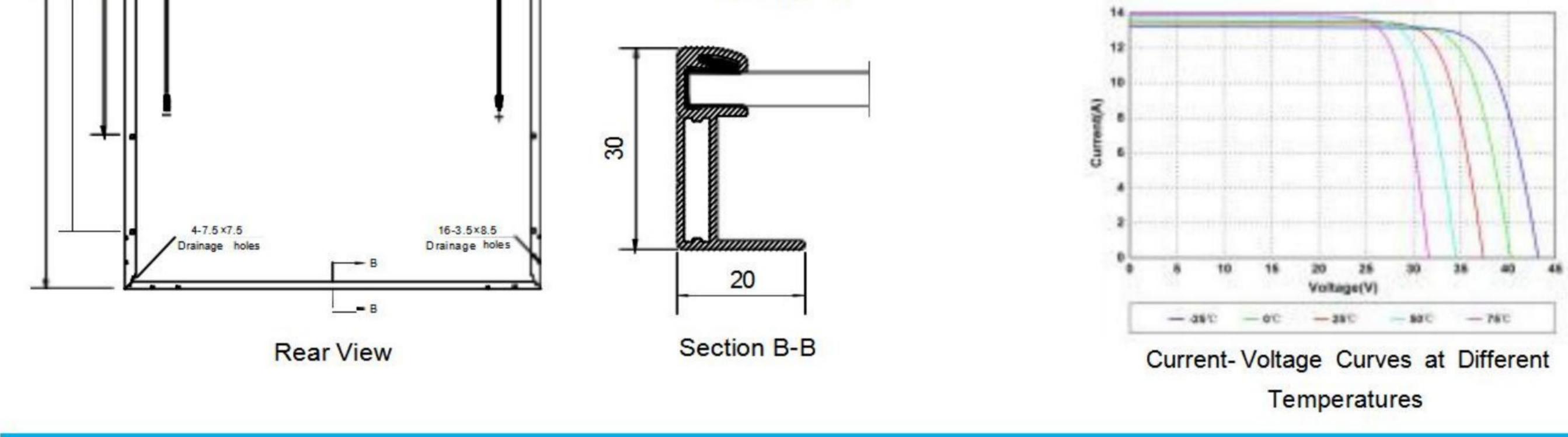
PACKAGING		
Standard packaging	36pcs/pallet	
Module quantity per 20' container	216pcs	
Module quantity per 40' container	936pcs (HQ)	

ENGINEERING DRAWINGS



IV CURVES





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