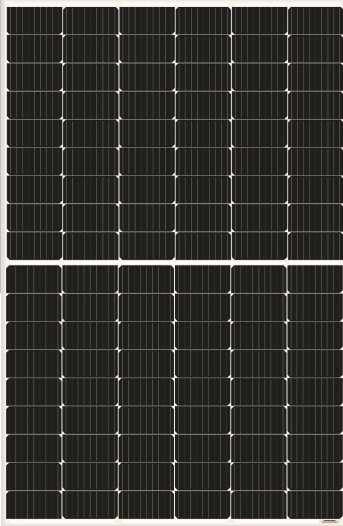


HC-SPR-P6-410 FULL BLACK 390W~410W

MONOCRYSTALLINE MODULE



ADVANCED PERFORMANCE & PROVEN ADVANTAGES


- High module conversion efficiency up to 20.90% by using innovative Half-cell design and Multi-busbar(MBB) cell technology.
- Low temperature coefficient and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.

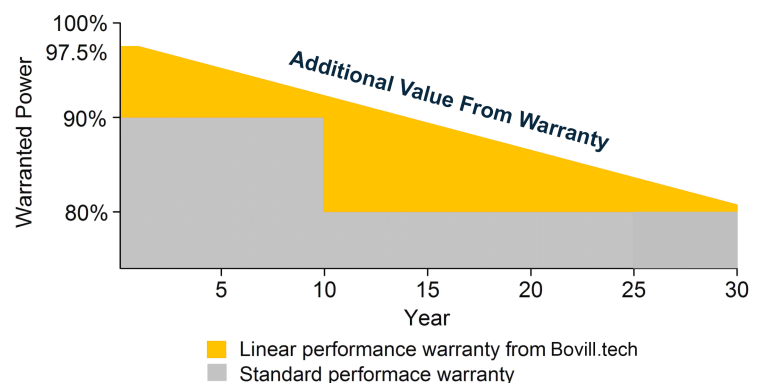
CERTIFICATIONS

- IEC 61215, IEC 61730, CE
- ISO 9001:2015: Quality management system
- ISO 14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system



SPECIAL WARRANTY

- 40 years product warranty (extendable to lifetime 99 year warranty)
- 40 years linear power output warranty (extendable to lifetime 99 year warranty)
- Designed in the UK 



ELECTRICAL CHARACTERISTICS AT STC

Maximum Power (P_{max})	390W	395W	400W	405W	410W
Open Circuit Voltage (V_{OC})	36.8V	37.0V	37.2V	37.4V	37.6V
Short Circuit Current (I_{SC})	13.58A	13.64A	13.70A	13.76A	13.82A
Voltage at Maximum Power (V_{mp})	30.6V	30.8V	31.0V	31.2V	31.4V
Current at Maximum Power (I_{mp})	12.75A	12.83A	12.91A	12.99A	13.06A
Module Efficiency (%)	19.88	20.13	20.39	20.64	20.90
Operating Temperature	-40°C to +85°C				
Maximum System Voltage	1000V DC/1500V DC				
Fire Resistance Rating	Type 1(in accordance with UL1703)/Class C(IEC61730)				
Maximum Series Fuse Rating	25A				

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

ELECTRICAL CHARACTERISTICS AT NOCT

Maximum Power (P_{max})	292W	296W	300W	304W	308W
Open Circuit Voltage (V_{OC})	33.8V	34.0V	34.2V	34.4V	34.6V
Short Circuit Current (I_{SC})	11.00A	11.05A	11.10A	11.15A	11.20A
Voltage at Maximum Power (V_{mp})	27.8V	28.0V	28.2V	28.4V	28.6V
Current at Maximum Power (I_{mp})	10.51A	10.58A	10.64A	10.71A	10.77A

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	1730x1134x35mm (68.11x44.65x1.38inches)
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

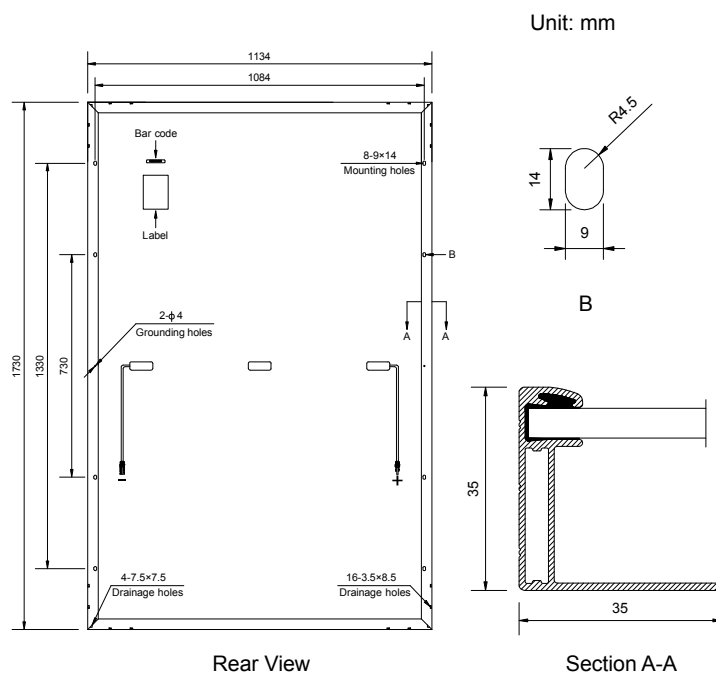
TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	43°C±2°C
Temperature Coefficients of P_{max}	-0.36%/°C
Temperature Coefficients of V_{OC}	-0.28%/°C
Temperature Coefficients of I_{SC}	0.05%/°C

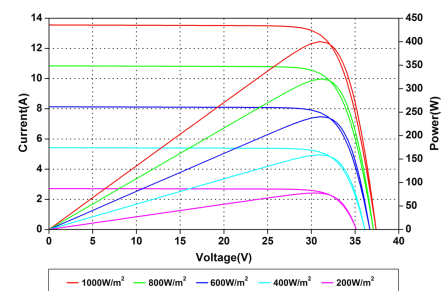
PACKAGING

Standard packaging	31pcs/pallet
Module quantity per 20' container	186pcs
Module quantity per 40' container	806pcs (HQ)

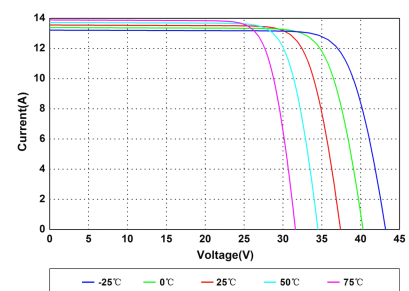
ENGINEERING DRAWINGS



IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

Specifications in this datasheet are subject to change without prior notice.