

HC-SPR-P6-410 FULL BLACK 400W~415W

MONOCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 21.25% 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 aluminium frame ensures the modules can 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.
- Aesthetically appealing design with black backsheet and frame.

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

LIFE TERM WARRANTY

- 40 years product warranty
- 40 years linear power output warranty
- Designed in the UK

Passionately

committed to

delivering innovative

energy solutions



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MCS certificate No: BABT8868-101 Product Code: HC-SPR-P6-410

ELECTRICAL CHARACTERISTICS AT STC				
Maximum Power (P _{max})	400W	405W	410W	415W
Open Circuit Voltage (Voc)	37.2V	37.4V	37.6V	37.8V
Short Circuit Current (I _{SC})	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 (I _{mp})	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	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 Pmax: ±3%; Measurement Tolerance: ±3%

ELECTRICAL CHARACTERISTICS AT NOCT				
Maximum Power (P _{max})	300W	304W	308W	312W
Open Circuit Voltage (Voc)	34.2V	34.4V	34.6V	34.8V
Short Circuit Current (I _{SC})	11.10A	11.15A	11.20A	11.25A
Voltage at Maximum Power (V _{mp})	28.2V	28.4V	28.6V	28.8V
Current at Maximum Power (I _{mp})	10.64A	10.71A	10.77A	10.84A

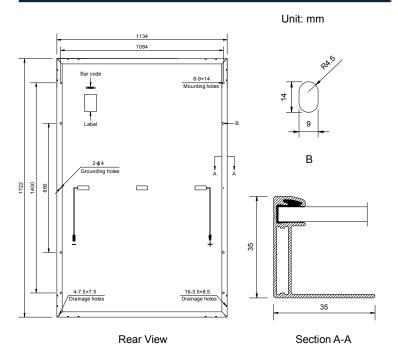
NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind Speed 1 m/s

MECHANICAL CHARACTERISTICS				
Cell type	Monocrystalline PERC 182*91mm			
Number of cells	108 (6x18)			
Module dimensions	1722x1134x35mm (67.80x44.65x1.38inches)			
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	4mm² (0.006inches²), 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	

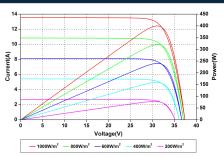
PACKAGING			
Standard packaging	31pcs/pallet		
Module quantity per 20' container	186pcs		
Module quantity per 40' container	806pcs (HQ)		

ENGINEERING DRAWINGS

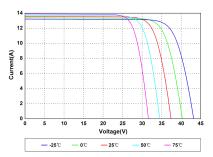


Specifications in this datasheet are subject to change without prior notice.

IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

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