

Key Features

- ▶ High module conversion efficiency, reducing installation costs and maximizing the kwh output per unit area.
- ▶ Power tolerance of 0 to +3% minimizes PV system mismatch losses.
- ▶ Anodized aluminum frame is mainly for improving corrosion resistance
- ▶ Highly transparent, low-iron, tempered glass, and antireflective coating
- ▶ Excellent performance under low light environments

Advantages

- ▶ Extensive 10-year limited product warranty on materials and workmanship; 25-year limited warranty on power put
- ▶ Product liability insurance: Zurich insurance
- ▶ Local warehousing and technical support
- ▶ In-house manufacturing of solar cells and modules ensures tight control of our material and production quality.

Applications

- ▶ On-grid residential/commercial/industrial roof-tops
- ▶ Off-grid system
- ▶ Solar power plants



MONO-CRYSTALLINE SOLAR PANEL

HCP200D-24 Series 165/170/175/180/185/190/195/200W

ELECTRICAL CHARACTERISTICS

Model type		HCP165D	HCP170D	HCP175D	HCP180D	HCP185D	HCP190D	HCP195D	HCP200D
Power output [Wp]	(Pmax)	165	170	175	180	185	190	195	200
Power output tolerance [%]	(ΔPmax)	+ 3	+ 3	+ 3	+ 3	+ 3	+ 3	+ 3	+ 3
Module efficiency [%]	(η _m)	12.9	13.3	13.7	14.0	14.5	14.9	15.3	15.7
Maximum power voltage [V]	(V _{mpp})	35.4	35.9	36.3	36.4	36.4	36.5	36.7	36.8
Maximum power current [A]	(I _{mpp})	4.66	4.74	4.83	4.95	5.08	5.21	5.32	5.44
Open circuit voltage [V]	(V _{oc})	43.7	44.0	44.2	44.2	44.3	44.5	44.6	44.6
Short circuit current [A]	(I _{sc})	5.07	5.10	5.12	5.13	5.20	5.30	5.41	5.54
Maximum system voltage [V]		DC 1000							
Maximum series fuse rating [A]		15							

Values at Standard Test Conditions (STC): 1000W/m² irradiance, AM1.5 solar spectrum and 25 °C module temperature

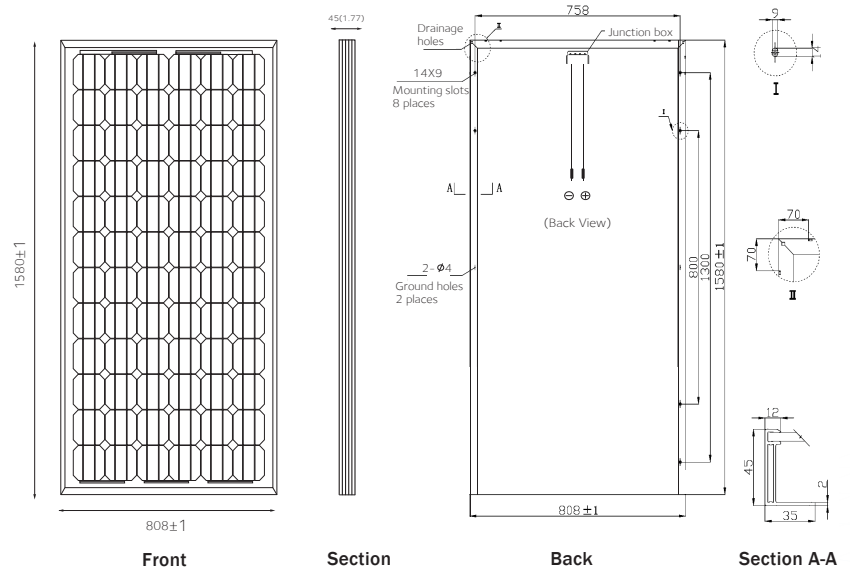
MECHANICAL CHARACTERISTICS

Solar Cells	72 pcs monocrystalline 5" silicon cells (125mm × 125mm)
Front cover	High transmission 3.2mm (1/8 th in) glass
Encapsulant	Ethylene vinyl acetate (EVA)
Back cover	White polyester
Frame	Anodized aluminum alloy/silver/Clear
Junction box	1 box with 3 bypass diodes, IP 65 rated
Cable	Length 900 mm, 4mm ² cable, with latching MC4 connectors
Dimensions	1580 × 808 × 45mm (62.21 × 31.81 × 1.77 in)
Weight	15.5 kg (34.17 lbs)

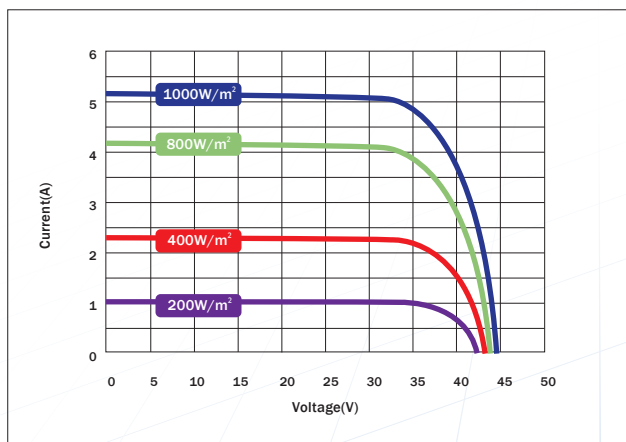
TEMPERATURE COEFFICIENTS

Temp. Coeff. Of I _{sc} (TK I _{sc})	(0.045±0.01)%/°C
Temp. Coeff. Of V _{oc} (TK V _{oc})	(-0.34)%/°C
Temp. Coeff. Of P _{max} (TK P _{max})	(-0.47±0.05)%/°C
NOCT	(45±2) /°C

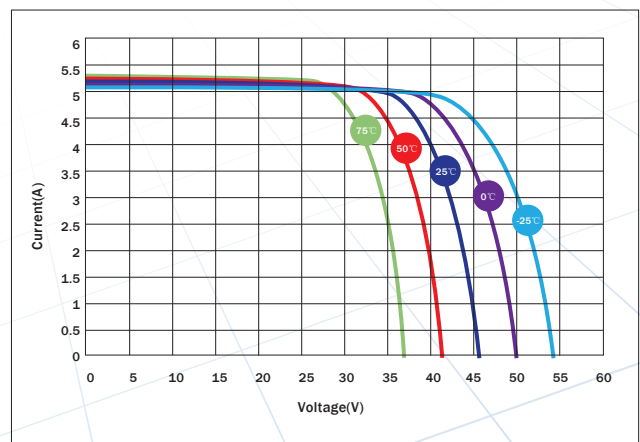
*NOCT (Nominal Operation Cell Temperature): Module operation temperature at 800 W/m² irradiance, 20°C air temperature, 1 m/s wind speed.



DEPENDENCE OF THE IRRADIANCE



DEPENDENCE OF THE TEMPERATURE



Your HC Solar Partner

CAUTION: Read the instruction manual entirely before handling, installing, and operating HC modules.