



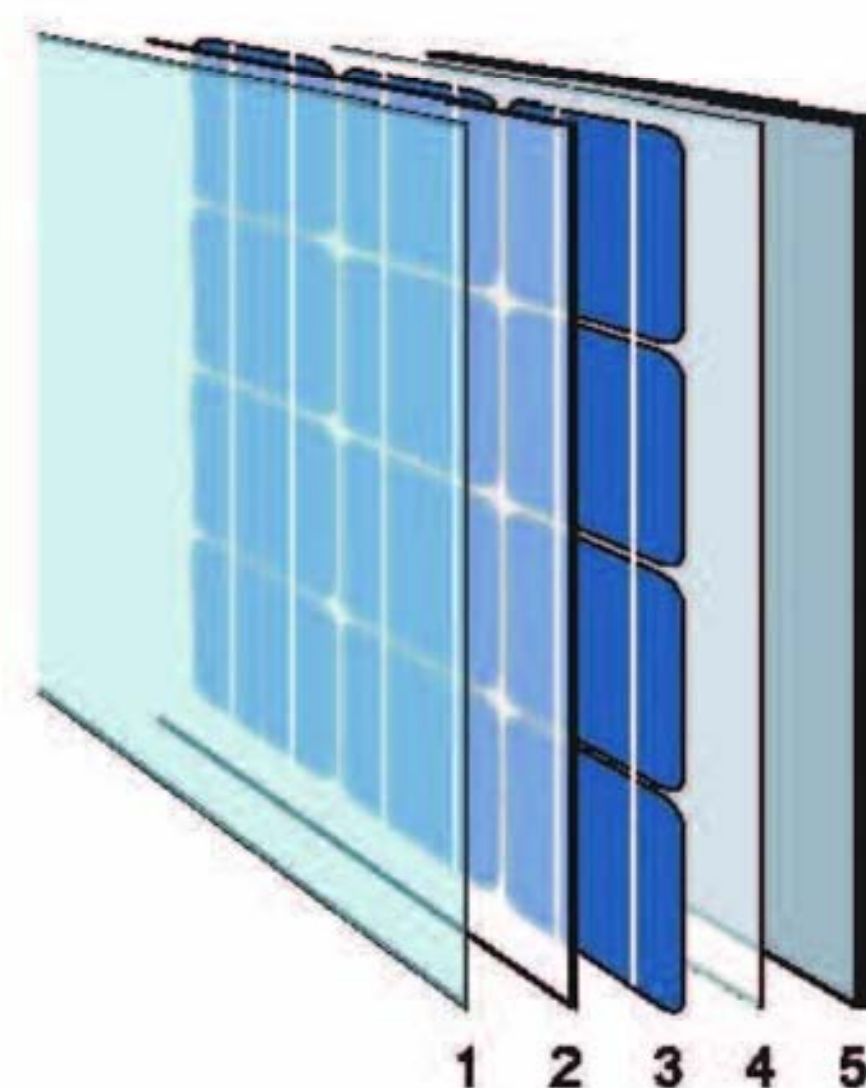
HU'NAN GREEN POWER
CO., LTD.
www.chn-green.com

HNGR-XXXP60 (XXX=200-250W)

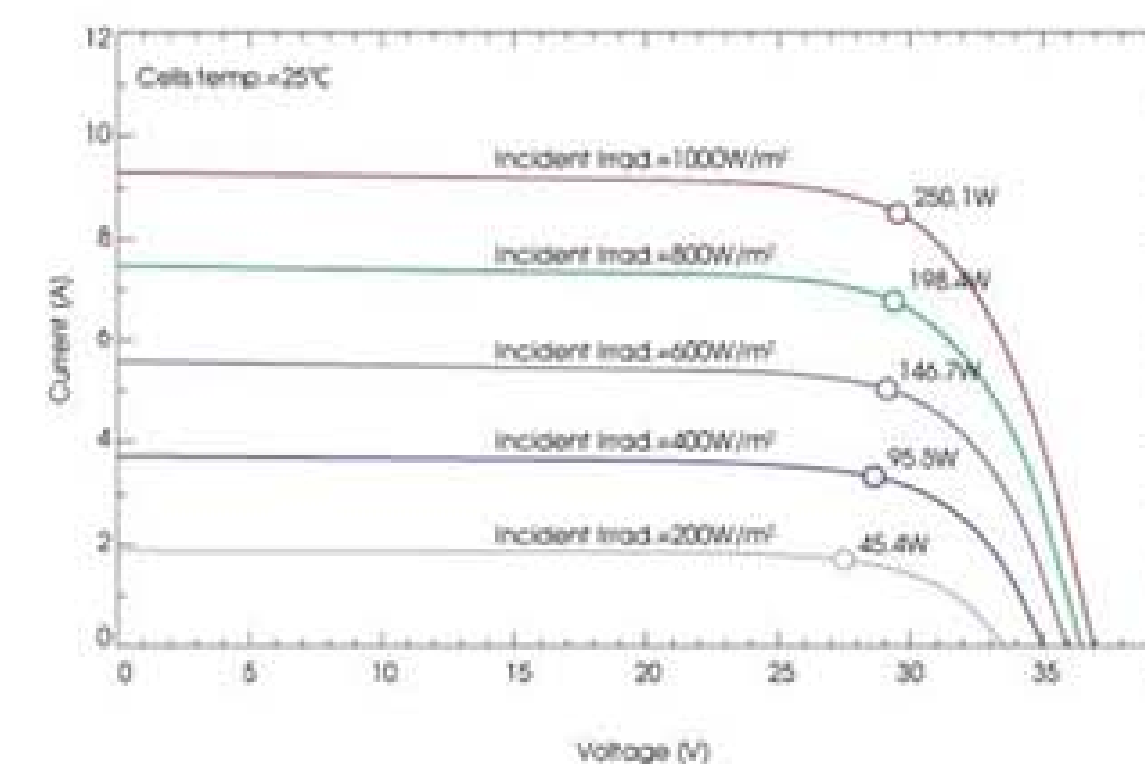
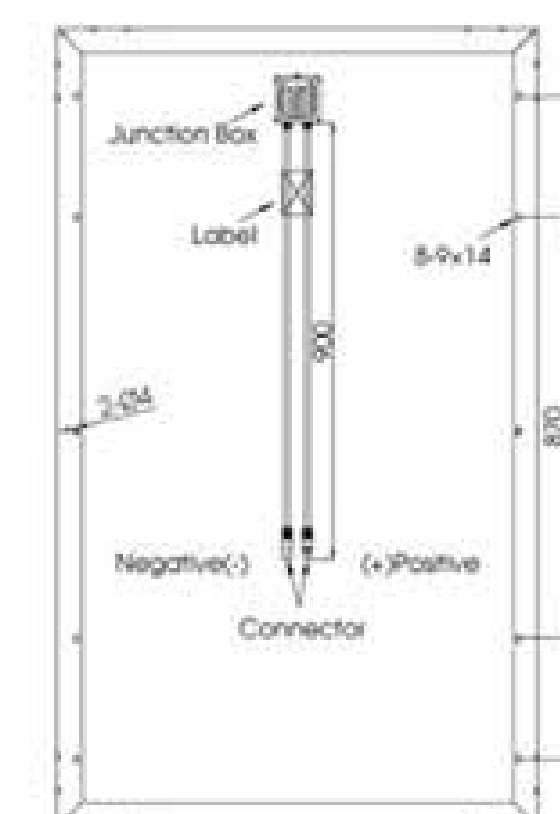
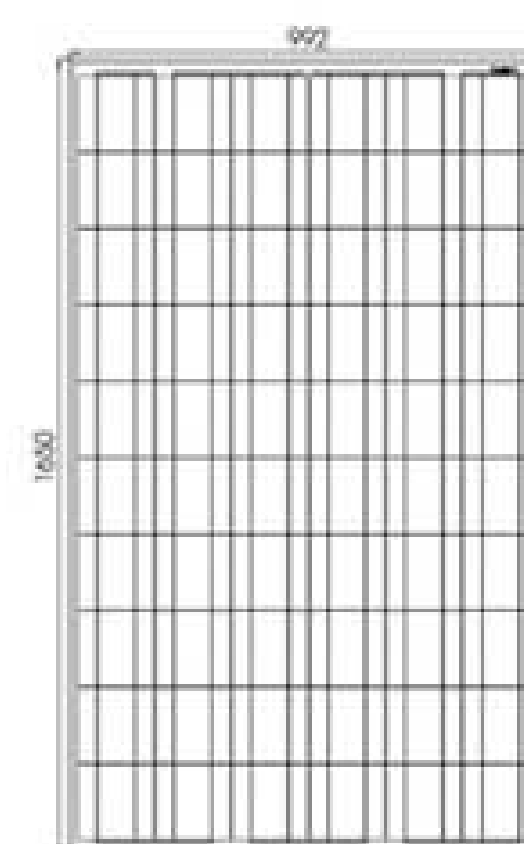


We provide 25-year limited warranty on 80% power output, 5-year limited warranty on materials and workmanship.

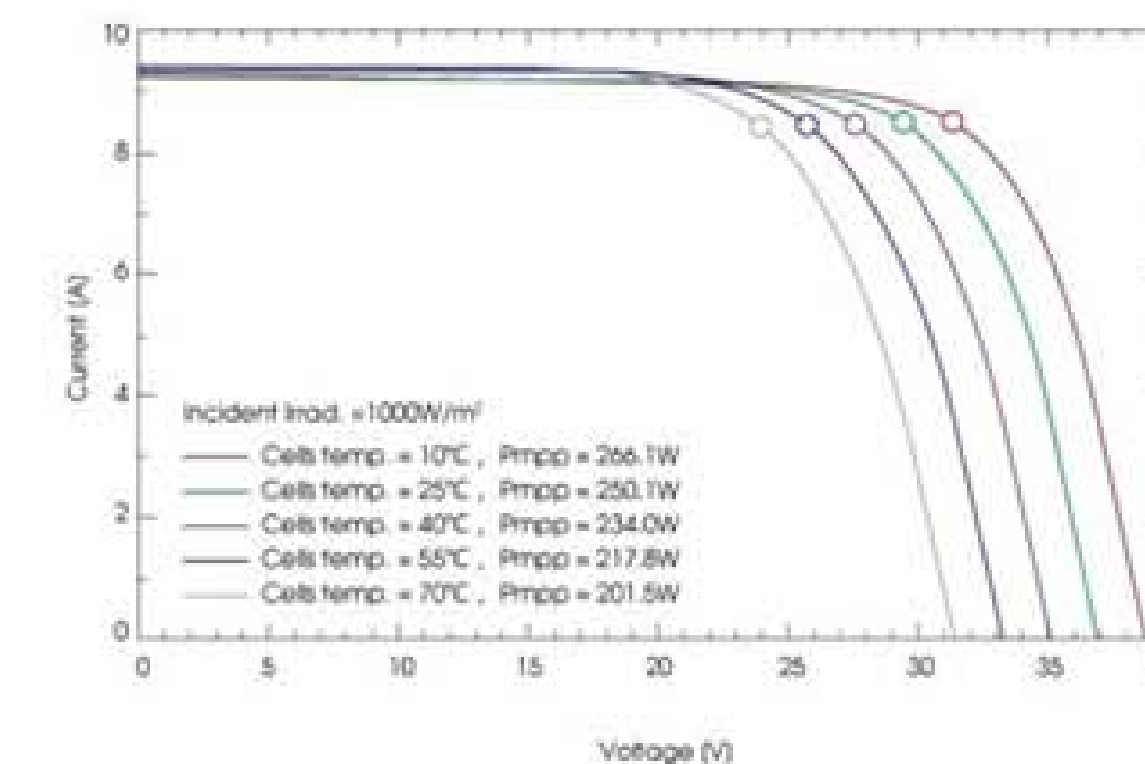
If you have any doubt, please don't hesitate to contact us at peter.yang@chn-green.com



- 1 Tempered glass
- 2 EVA
- 3 Cells
- 4 EVA
- 5 Triple-layer back sheet



I-V Curves at different irradiance



I-V Curves at different temperature

Specifications

Model type	HNGR-250P60	HNGR-245P60	HNGR-240P60	HNGR-235P60	HNGR-230P60	HNGR-225P60	HNGR-220P60	HNGR-215P60	HNGR-210P60	HNGR-205P60	HNGR-200P60
Peak power (Pmax)	250W	245W	240W	235W	230W	225W	220W	215W	210W	205W	200W
Maximu power voltage (Vmp)	30.39V	30.25V	30.18V	29.95V	29.82V	29.52V	29.34V	28.74V	28.70V	28.62V	28.50V
Maximu power current (Imp)	8.23A	8.10A	7.96A	7.85A	7.72A	7.63A	7.50A	7.48A	7.32A	7.16A	7.02A
Open circuit voltage (Voc)	36.97V	36.8V	36.72V	36.41V	36.10V	36.30V	36.56V	36.50V	36.48V	36.31V	36.24V
Short circuitcurrent (Isc)	9.29A	9.15A	8.99A	8.87A	8.73A	8.62A	8.48A	8.46A	8.28A	8.09A	7.94A
Cell efficiency	17.60%	17.20%	16.50%	16.25%	16.00%	15.75%	15.25%	15.00%	14.50%	14.25%	13.75%
Maximu system voltage		DC 1000V						DC 1000V			
Temp.Coeff.of Isc (TK Isc)		0.045%/°C						0.045%/°C			
Temp.Coeff.of Voc (TK Voc)		-0.34%/°C						-0.34%/°C			
Temp.Coeff.of Pmax (TK Pmax)		-0.47%/°C						-0.47%/°C			
Normal Operating Cell Temperature		45±2°C						45±2°C			
Tolerance		±3%						±3%			
Cell type		Poly Crystalline Silicon , 156mm×156mm						Poly Crystalline Silicon , 156mm×156mm			
Number of cells		60 cells in series						60 cells in series			
Weighe		21kg						21kg			
Dimensions		1650×992×50mm (65.01×39.06×1.97 inch)						1650×992×50mm (65.01×39.06×1.97 inch)			
Packing		20GP: 228P 40GP: 494P 40HQ: 559P						20GP: 228P 40GP: 494P 40HQ: 559P			
Warranty		25 year limited power warranty, 10 year limited power warranty						25 year limited power warranty, 10 year limited power warranty			

STC Irradiance 1000W/m², Temperature 25°C, AM=1.5