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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Changzhou Hershey-Power New Energy Co., Ltd.**

**HS120-P-280-330W**

**HS120-P-320**

Also available on the web at

[EnergyPal.com/changzhou-hershey-power-new-energy-co-ltd-solar-panels/hs120-p-](http://EnergyPal.com/changzhou-hershey-power-new-energy-co-ltd-solar-panels/hs120-p-320)

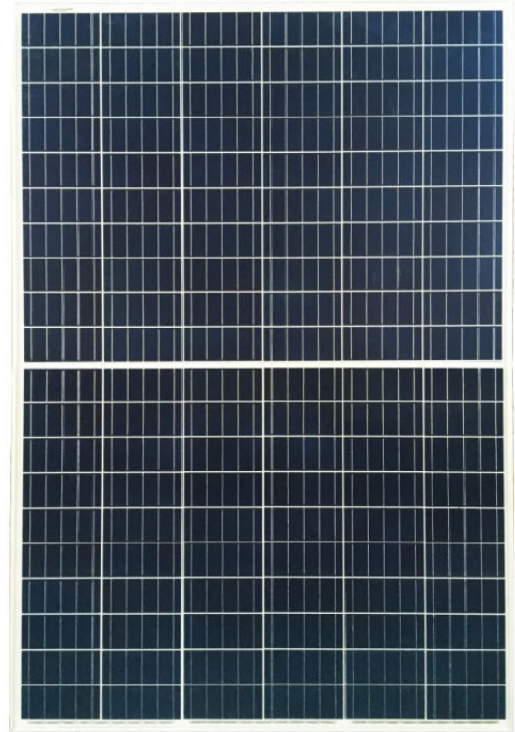
320

# HS120-P-[280-330W]

POLY-CRYSTALLINE HALF CUT MODULE



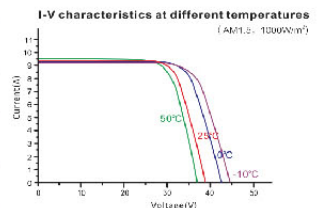
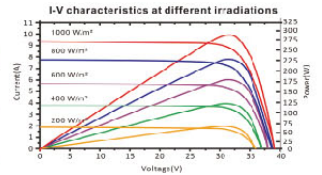
- Industry leading lowest thermal co-efficient of power
- Industry leading 12 years product warranty
- Excellent low irradiance performance
- Excellent PID resistance
- Positive tight power tolerance
- Dual stage 100% EL Inspection warranting defect-free product
- Module Imp binning radically reduces string mismatch losses
- Warranted reliability and stringent quality assurances well beyond certified requirements
- Certified to withstand severe environmental conditions
  - ◆ Anti-reflective & anti-soiling surface minimise power loss from dirt and dust
  - ◆ Severe salt mist, ammonia & blown sand resistance, for seaside, farm and desert environments
  - ◆ Excellent mechanical load 2400Pa & snow load 5400Pa resistance



## ELECTRICAL DATA (STC)

Model Number	HS120-P-280	HS120-P-285	HS120-P-290	HS120-P-295	HS120-P-310	HS120-P-315	HS120-P-320	HS120-P-325	HS120-P-330
Rated Power in Watts-Pmax(Wp)	280	285	290	295	310	315	320	325	330
Open Circuit Voltage-Voc(V)	38.42	38.58	38.75	38.92	39.70	39.80	40.00	40.10	40.30
Short Circuit Current-Isc(A)	9.30	9.40	9.50	9.60	9.90	10.00	10.10	10.20	10.30
Maximum Power Voltage-Vmpp(V)	32.20	32.40	32.60	32.80	33.35	33.55	33.70	33.90	34.05
Maximum Power Current-Imp(A)	8.70	8.80	8.90	9.00	9.30	9.40	9.50	9.60	9.70
Module Efficiency (%)	16.80%	17.10%	17.30%	17.60%	18.44%	18.75%	19.03%	19.35%	19.63%

@STC (1000W/m<sup>2</sup>, AM1.5, Cell Temp. 25°C) Voc tolerance ±3% Isc tolerance ±4%



## MECHANICAL DATA

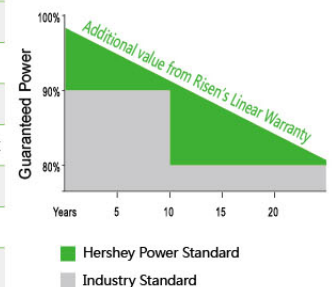
Solar cells	Polycrystalline, 5BB
Cell configuration	120 cells (6x10+6x10)
Weight	19kg
Superstrate	3.2 mm, High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Back-sheet
Frame	Anodized Aluminium Alloy ,Silver Color
J-Box	Potted, IP68,1500VDC, 3 Schottky bypass diodes
Cables	4.0mma (12AWG), Positive(+)270mm, Negative(-)100mm
Connector	IP67/IP68

## TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	45°C±2°C
Temperature Coefficient of Voc	-0.32%/°C
Temperature Coefficient of Isc	0.055%/°C
Temperature Coefficient of Pmax	-0.39%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	20A
Limiting Reverse Current	20A

## LINEAR PERFORMANCE WARRANTY

12year Product Warranty/25year Linear Power Warranty



## CHANGZHOU HERSHEY-POWER NEW ENERGY CO.,LTD

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