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Solar Panel Guide Specification Data Sheet

Changzhou Hershey-Power New Energy Co., Ltd.

HS144-M 375-430W

HS144-M 375

Also available on the web at
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HS144-M-[375-430W]

MONO-CRYSTALLINE HALF CUT MODULE



HERSHEY POWER

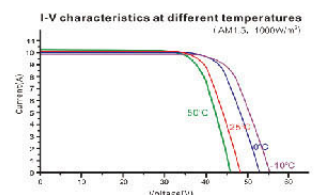
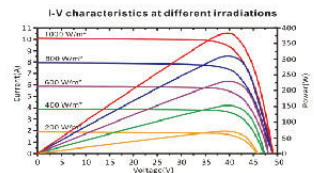


-  **Industry leading lowest thermal co-efficient of power**
-  **Industry leading 12 years product warranty**
-  **Excellent low irradiance performance**
-  **Excellent PID resistance**
-  **Positive tight power tolerance**
-  **Dual stage 100% EL Inspection warranting defect-free product**
-  **Module 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	HS144-M-375	HS144-M-380	HS144-M-385	HS144-M-390	HS144-M-400	HS144-M-415	HS144-M-420	HS144-M-425	HS144-M-430
Rated Power in Watts-Pmax(Wp)	375	380	385	390	400	415	420	425	430
Open Circuit Voltage-Voc(V)	47.75	48.00	48.15	48.30	48.60	49.00	49.10	49.20	49.30
Short Circuit Current-Isc(A)	10.00	10.10	10.20	10.30	10.50	10.80	10.90	11.00	11.10
Maximum Power Voltage-Vmpp(V)	39.90	40.05	40.15	40.25	40.50	40.70	40.80	40.90	40.96
Maximum Power Current-Imp(A)	9.40	9.50	9.60	9.70	9.90	10.20	10.30	10.40	10.50
Module Efficiency (%)	18.80%	19.10%	19.30%	19.60%	19.95%	20.69%	20.94%	21.19%	21.43%

@STC (1000W/m², AM1.5, Cell Temp. 25°C) Voc tolerance ±3% Isc tolerance ±4%



MECHANICAL DATA

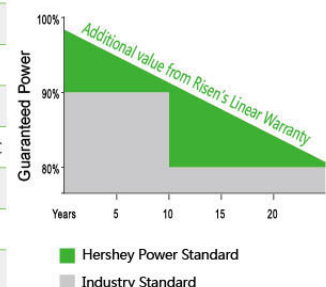
Solar cells	Monocrystalline, 5BB, 144cells(6x12+6x12)
Module size	2021*1006*40mm
Weight	23kg
Superstrate	3.2 mm, High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Back-sheet
Frame	Anodized Aluminium Alloy, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm (12AWG), 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



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