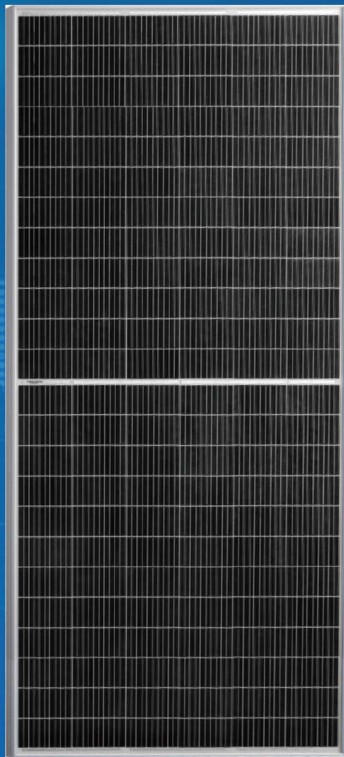


# HG-455W-166M/144

HIGH PERFORMANCE  
MONOCRYSTALLINE PERC MODULE

Himin® PV



Size:2094x1038x35mm  
Cell:166mm

144CELL  
Mono PERC Module

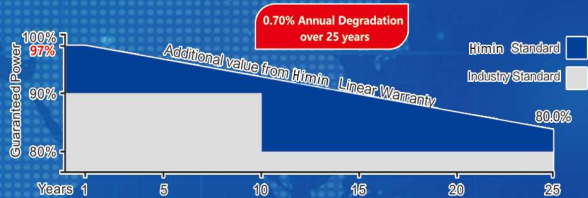
430-455Wp  
Power Output Range

1500VDC  
Maximum System Voltage

20.96%  
Maximum Efficiency

## LINEAR PERFORMANCE WARRANTY

12 year Product Warranty / 25 year Linear Power Warranty



★ Please check the valid version of Limited Product Warranty which is officially released by Himin Clean Energy Holdings Co.,Ltd



## KEY SALIENT FEATURES



Independently certified state-of-the-art automated manufacturing



Dual stage 100% EL Inspection warranting defect-free product



Industry leading lowest thermal co-efficient of power



Module Imp binning radically reduces string mismatch losses



Industry leading 12 years product warranty



Warranted reliability and stringent quality assurances well beyond certified requirements



Excellent low irradiance performance



Certified to withstand severe environmental conditions

- Anti-reflective & anti-soiling surface minimise power loss from dirt and dust



Excellent PID resistance

- Severe salt mist, ammonia & blown sand resistance, for seaside, farm and desert environments



Positive tight power tolerance

- Excellent mechanical load 2400Pa & snow load 5400Pa resistance

Himin Clean Energy Holdings Co.,Ltd

Add: Sun-moon Mansion,Solar Valley Road 253090 Dezhou City, Shandong,China  
Tel: +86-534-508-9496

Web: [www.himinsun.com](http://www.himinsun.com)

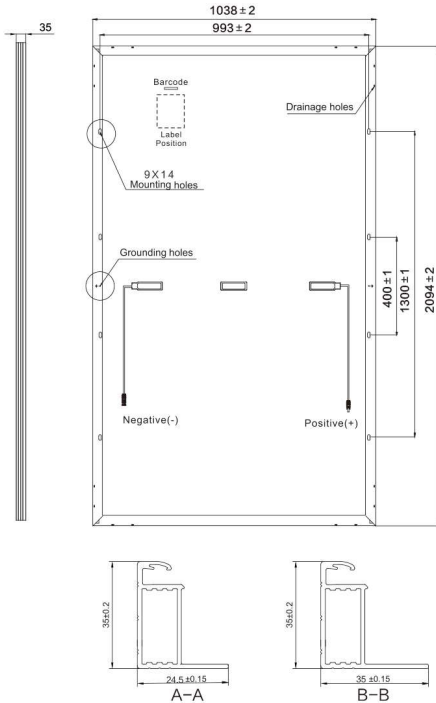
E-mail: [info@himin.com](mailto:info@himin.com)



# HG-455W-166M/144



## Dimensions of PV Module Unit: mm



## ELECTRICAL DATA (STC)

Model Number	HG-430W-166/144	HG-435W-166/144	HG-440W-166/144	HG-445W-166/144	HG-450W-166/144	HG-455W-166/144
Rated Power in Watts-Pmax(Wp)	430	435	440	445	450	455
Open Circuit Voltage-Voc(V)	48.70	49.00	49.20	49.40	49.60	49.80
Short Circuit Current-Isc(A)	11.23	11.31	11.39	11.46	11.53	11.61
Maximum Power Voltage-Vmpp(V)	40.30	40.50	40.70	40.80	41.00	41.20
Maximum Power Current-Impp(A)	10.67	10.74	10.82	10.90	10.98	11.06
Module Efficiency (%) *	19.78	20.01	20.26	20.46	20.71	20.96

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

\* Module Efficiency (%): Round-off to the nearest number

## MECHANICAL DATA

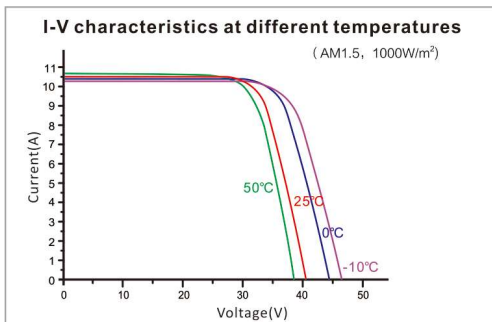
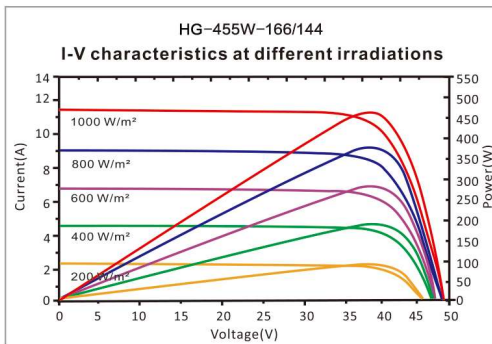
Solar cells	Monocrystalline
Cell size	166mmx166mm 9BB
Cell configuration	144 cells(6x12+6x12)
Module dimensions	2094X1038x35mm
Weight	24.5kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Back-sheet
Frame	Anodized Aluminium Alloy type 6063T5, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm <sup>2</sup> (12AWG), Positive(+)300mm, Negative(-)300mm (Connector Included)
Connector	ZJCV PV-CY03L,IP68

## TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.35%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	20A
Limiting Reverse Current	30A

## PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	660
Number of modules per pallet	30
Number of pallets per container	22
Packaging box dimensions (LxWxH) in mm	2120X1120x1190
Box gross weight[kg]	755



CAUTION:READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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