

# M6 Mono Half Cell Module

## ZHS1-144-166 435~460W

(Positive power tolerance of 0~+5W)

## Key Features



MBB Half Cut Cell With PERC Technology



Higher Power Output



Better Low-light Performance



Less Shading Effect



PID Resistance



Enhanced Mechanical Load

IEC61215/IEC61730

ISO9001:Quality Management System

ISO14001:Environmental Management System

ISO45001:Occupational Health and Safety Management System

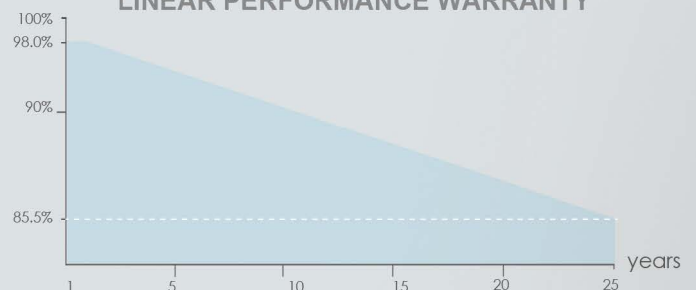


ZH SOLAR



- 12** year Warranty for Materials and Processing
- 25** year Warranty for Extra Linear Power Output
- 0.5%** Annual Degradation Over 25 years

### LINEAR PERFORMANCE WARRANTY



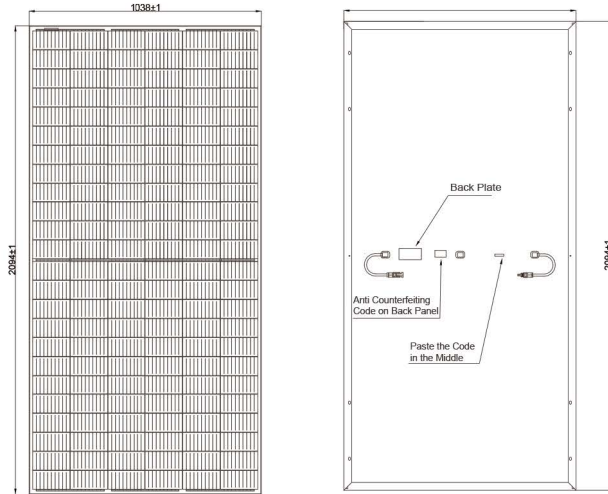
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## PHOTOS



## ENGINEERING DRAWINGS

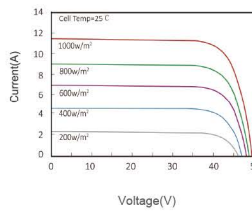


## SPECIFICATIONS

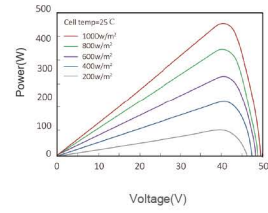
Cell	6×24 mono solar cell
Junction Box	IP≥ 68, TÜV & UL
Cable&Connector	4mm <sup>2</sup> , TS4 / MC4-EVO2
Cable Lenath	300mm or as customer's requirements
Weight	23.5kg
Packing	30pcs/pallet
Loading Capacity	150pcs/20GP 660pcs/40HC

## IV CURVES

Current-Voltage Curve (JFS1-144-166)



Power-Voltage Curve (JFS1-144-166)



Module Type	ZHS1-144-435M		ZHS1-144-440M		ZHS1-144-445M		ZHS1-144-450M		ZHS1-144-455M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Test Environment	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (W)	435	325	440	328	445	332	450	336	455	339
Open Circuit Voltage (V)	48.5	45.6	48.7	45.8	48.9	46	49.1	46.2	49.3	46.4
Short Circuit Current (A)	11.42	9.21	11.48	9.26	11.54	9.31	11.6	9.36	11.66	9.41
Maximum Power Voltage (V)	40.5	37.8	40.7	37.9	40.9	38.1	41.1	38.3	41.3	38.5
Maximum Power Current (A)	10.75	8.59	10.82	8.65	10.89	8.71	10.96	8.76	11.02	8.82
Module Efficiency (%)	20.01		20.24		20.47		20.70		20.93	
Tolerance	0~+5W									
Maximum System Voltage	1500V(IEC)									
Temp. Coeff. of Voc	-0.270 % / °C									
Temp. Coeff. of Isc	0.048 % / °C									
Temp. Coeff. of Pm	-0.350 % / °C									
Operatinatemperature	40 to 85 °C									
Nominal operating cell temperature (NOCT)	45±2 °C									
Max.Series Fuse	20A									

\*STC: Irradiance 1000W/m<sup>2</sup> Cell Temperature 25°C AM=1.5 NOCT: Irradiance 800W/m<sup>2</sup> Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s



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