

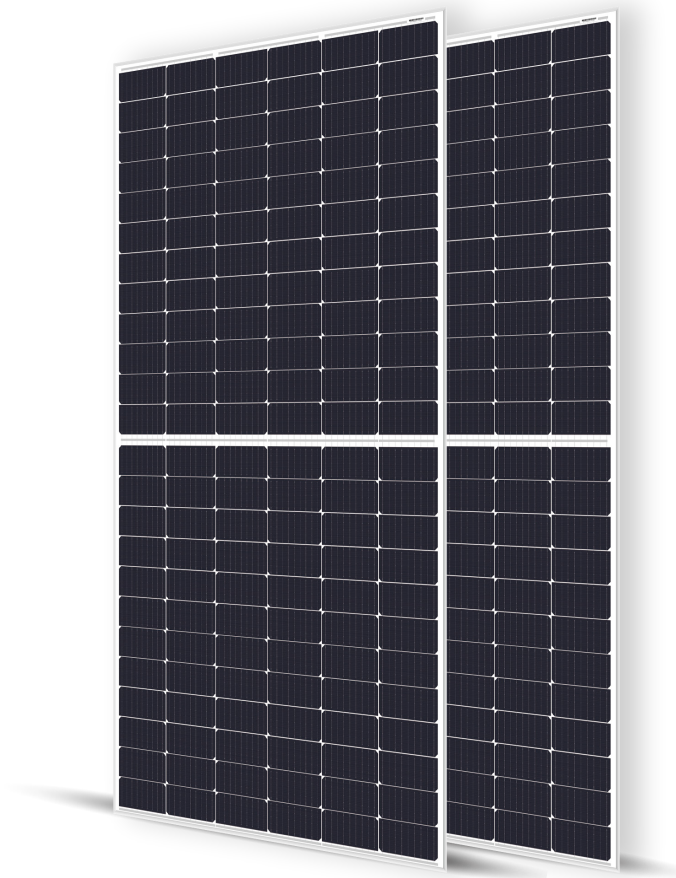
ZPM

PERC Monocrystalline Silicon Photovoltaic Panel 440-460 W 72 pcs

ZPM 440MH3-72~ZPM 460MH3-72



ZONERGY



MBB and half-cell technology applied functions to improve energy density and bring higher output power.



Products of this series passed salt spray and ammonia corrosion test certified by TUV.



The panel is certified for wind load of 2400 Pa and snow load of 5400 Pa.



Attenuation in the first year is less than 2.5%, and the linear attenuation is 0.55% per year within 25 years.



New generation battery technology and optimized circuit design secures to obtain better temperature coefficient and Hot Spot Resistance.



MBB technology adopted secures a stronger performance against Micro Cracking and grid breaking.

ZPM 440MH3-72~ZPM 460MH3-72
Technical parameters

Technical parameters:	ZPM 440MH3-72	ZPM 445MH3-72	ZPM 450MH3-72	ZPM 455MH3-72	ZPM 460MH3-72
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Electrical performance parameters (STC)					
Maximum output power	440	445	450	455	460
Open circuit voltage	49.08	49.28	49.48	49.68	49.88
Short circuit current	11.39	11.46	11.53	11.59	11.67
Maximum power voltage	40.54	40.74	40.94	41.14	41.34
Maximum power current	10.86	10.93	11	11.07	11.13
Panel conversion efficiency	20.24	20.47	20.7	20.93	21.16
Operation temperature	-40 °C~ 85 °C				
Maximum system voltage	1000/1500 VDC				

	Structural parameters
Battery specifications	166*83 mm monocrystalline
Dimension of the panel (mm)	2094*1038*35
Weight of the panel	24 kg
Front glass	3.2 mm high light transmittance, coated tempered glass
Back panel	ageing resistant film
Panel frame	anodized aluminium alloy
Junction box	degrees of protection IP68
Cable	4.0mm ² positive pole: 250mm negative pole: 300mm wire length, customizable
Connector	MC4 compatible connector

	Temperature characteristics
Temperature coefficient (Pm)	-0.350%/°C
Temperature coefficient (Voc)	-0.270%/°C
Temperature coefficient (Lsc)	0.048%/°C
NMOT battery rated operating temperature	41±3 °C
Certification	IEC61215-1, IEC61215-2, IEC61730-1, IEC61730-2

Note: Technical parameters listed hereunder are for reference only. Actual parameters shall be subject to products shipped.