### ZHEJIANG KINGDOM SOLAR ENERGY TECHNIC CO.,LTD





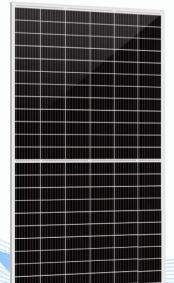


Kingdom Solar is the world's leading green energy manufacturer, committed to making clean energy illuminate every corner of the world. We strive to provide high-efficiency, high-quality and low-cost clean energy solutions. Kingdom solar insists on continuous innovation around customer needs. We invest heavily in technology research, and promotes green energy in the world. Contribute to the early realization of carbon peak and carbon neutrality.

# Top Power Panel, 166MM Series!

Maximum Output Wattage 450W, Positive Tolerance 0~+3W, Highest efficiency 20.7%

#### **KEY FEATURES**





#### PID Resistant

Excellent PID resistance test, and also can be improved to meet highest standards for the particularly harsh environment

#### **Low-Light Performance**

Excellent power generation performance under low-light conditions with MBB technology

#### Anti-Crack

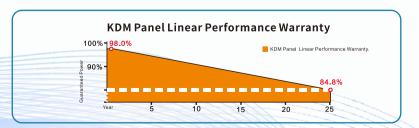
Excellent anti-microcracking performance with more balanced interior stress

#### Strength and Durability

Certified for 5400Pa snow and 2400Pa loads test.

12+ Material&Workmanship warranty

25+ Linear power output warranty



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#### **ELECTRICAL PARAMETERS AT STC & NOCT**

Module Type	KDM430-144HF	KDM435-144HF	KDM440-144HF	KDM445-144HF	KDM450-144HF
Rated Maximum Power (Pmax) [W]	430 321.1	435 324.9	440 328.6	445 332.3	450 336.1
Maximum Power Voltage (Vmp) [V]	40.7 37.9	40.9 38.1	41.1 38.3	41.3 38.5	41.5 38.6
Maximum Power Current (Imp) [A]	10.57 8.47	10.64 8.53	10.71 8.59	10.78 8.64	10.85 8.7
Open Circuit Voltage (Voc) [V]	48.5 45.5	48.7 45.7	48.9 45.8	49.1 46	49.3 46.2
Short Circuit Current (Isc) [A]	11.31 9.15	11.39 9.21	11.46 9.27	11.53 9.33	11.6 9.38
Module Efficiency	19.8	20	20.2	20.5	20.7

STC: lrradiance 1000 W/m2 module temperature 25°C AM=1.5 NOCT: lrradiance 800 W/m2 ambient temperature 20°C wind speed: 1m/s

Cell Type	Monocrystalline
Cell Dimensions	166mm
Cell Quantity	144pcs
Weight	23.5kg
Module Dimensions	2094*1038*40mm
Cable	4.0 mm² positive pole:240mm negative pole: 120mm,wire length can be customized
Front Glass	3.2 mm Anti-Reflection Coating High Transmission Low Iron Tempered Glass
Frame	Anodized aluminium alloy
Junction Box	lp68 Rated
Connector	MC4-EVO2
Mechanical Load	Front side 5400Pa/ Rear side 2400Pa

OPERATING CONDITIONS					
Power Tolerance (W)	(0,+3)				
Maximum System Volta	1000/1500VDC(IEC)				
Temperature Coefficier	-0.35 %/°C				
Temperature Coefficier	-0.28%/°C				
Temperature Coefficier	+0.048 %/°C				
Nominal Operating Cel	45±2°C				
Operating Temperature	-40°C-+85°C				
Maximum Series Fuse	20A				
PACKING CONFIGURATION					
Quantity/Cartoon	27pcs/big cartoon, 4pcs/small cartoon				
Pallets/Container	),				
Quantity/Container 638pcs/40HQ					

