## ZHEJIANG KINGDOM SOLAR ENERGY TECHNIC CO.,LTD



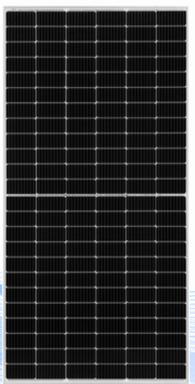




Kingdom Solar is the world's leading green energy manufacturer, committed to making clean energy illuminate every corner of the world. We strive to provide high-efficiency, high-quality and low-cost clean energy solutions. Kingdom solar insists on continuous innovation around customer needs. We invest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

# Top Quality Panel, 182MM Series!

Maximum Output Wattage 550W, Positive Tolerance0~+3W, Highest efficiency 21.33%



## **KEY FEATURES**



### Module efficiency up to 21.33%

Highest power brings lowest kilowatt-hour cost,highest lifetime generating capacity, simultaneously lowest annual power attenuation.



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

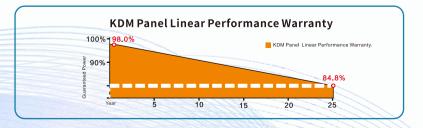
Excellent anti-microcracking performance with more balanced interior stress

#### 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	KDM530-144HF	KDM535-144HF	KDM540-144HF	KDM545-144HF	KDM550-144HF
Rated Maximum Power (Pmax) [W]	530 394	535 398	540 402	545 405	550 409
Maximum Power Voltage (Vmp) [V]	40.56 37.84	40.63 37.91	40.7 38.08	40.8 38.25	40.9 38.42
Maximum Power Current (Imp) [A]	13.07 10.42	13.17 10.5	13.27 10.55	13.36 10.6	13.45 10.65
Open Circuit Voltage (Voc) [V]	49.26 46.5	49.34 46.57	49.42 46.65	49.52 46.74	49.62 46.84
Short Circuit Current (Isc) [A]	13.71 11.07	13.79 11.14	13.85 11.19	13.94 11.26	14.03 11.33
Module Efficiency [%]	20.55	20.75	20.94	21.13	21.33

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

Cell Type	Monocrystalline		
Cell Dimensions	182mm		
Cell Quantity	144pcs		
Weight	27.4kg		
Module Dimensions	2279*1133*35mm		
Cable	4.0 mm <sup>2</sup> 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	Ip68 Rated		
Connector	MC4-EVO2		
Mechanical Load	Front side 5400Pa/ Rear side 2400Pa		

OPERATI	NG CONDITIONS		
Power Tolerance (W)	(0,+3)		
Maximum System Volta	1000/1500VDC(IEC		
Temperature Coefficie	-0.35 %/°C		
Temperature Coefficie	-0.28%/°C		
Temperature Coefficie	+0.048 %/°C		
Nominal Operating Ce	45±2°C		
Operating Temperatur	-40°C-+85°C		
Maximum Series Fuse	25A		
PACKING	G CONFIGURATION		
Quantity/Cartoon	31 pcs/big cartoon		
Pallets/Container	10big pallet/40HQ		
Quantity/Container	620pcs/40HQ		

