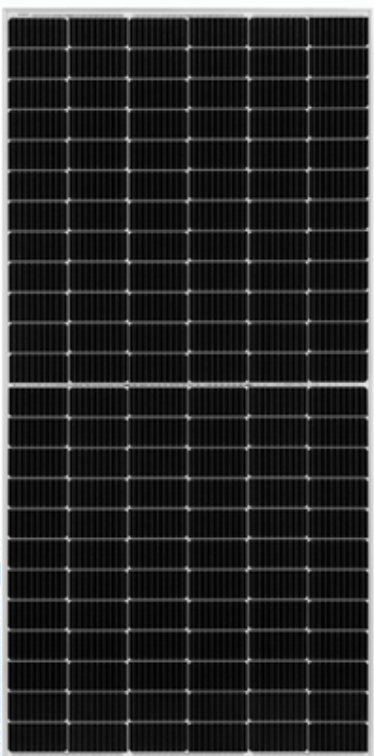




Kingdom Solar is the world's leading green energy manufacturer, committed to making clean energy illuminate every corner of the world. We strive to provide high-efficiency, high-quality and low-cost clean energy solutions. Kingdom solar insists on continuous innovation around customer needs. We invest 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 Tolerance **0~+3W**, Highest efficiency **21.33%**

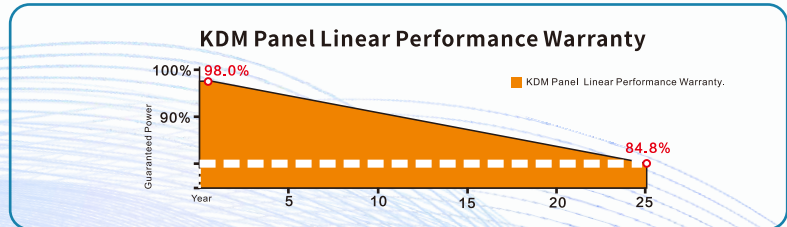


KEY FEATURES



- Module efficiency up to 21.33%**
Highest power brings lowest kilowatt-hour cost, highest lifetime generating capacity, simultaneously lowest annual power attenuation.
- Anti PID**
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**



ELECTRICAL PARAMETERS AT STC & NOCT

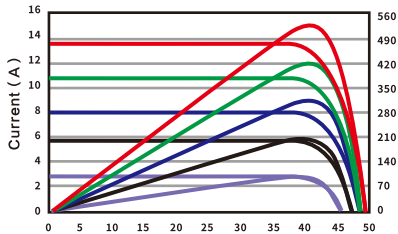
Module Type	KDM530-144HF	KDM535-144HF	KDM540-144HF	KDM545-144HF	KDM550-144HF
Rated Maximum Power (Pmax) [W]	530 394	535 398	540 402	545 405	550 409
Maximum Power Voltage (Vmp) [V]	40.56 37.84	40.63 37.91	40.7 38.08	40.8 38.25	40.9 38.42
Maximum Power Current (Imp) [A]	13.07 10.42	13.17 10.5	13.27 10.55	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: Irradiance 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	29kg
Module Dimensions	2274*1134*40mm
Cable	4.0 mm ² 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

OPERATING CONDITIONS	
Power Tolerance (W)	(0,+3)
Maximum System Voltage (V)	1000/1500VDC(IEC)
Temperature Coefficient Pmax	-0.35 %/°C
Temperature Coefficient Voc	-0.28%/°C
Temperature Coefficient Isc	+0.048 %/°C
Nominal Operating Cell Temperature	45 ± 2 °C
Operating Temperature	-40°C-+85°C
Maximum Series Fuse	20A
PACKING CONFIGURATION	
Quantity/Cartoon	27pcs/big cartoon
Pallets/Container	10big pallet/40HQ
Quantity/Container	540pcs/40HQ

I-V-P CURVE(540W)



Isc, Voc, Pmax CURVE

