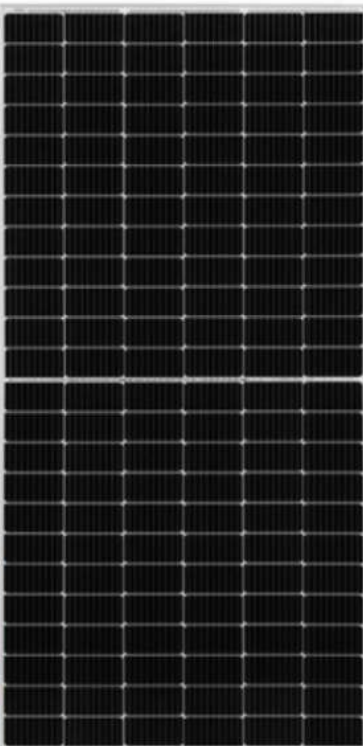




Kingdom Solar is the world's leading green energy manufacturer, committed to making clean energy illuminate every corner of the world. We strive to provide high-efficiency, high-quality and low-cost clean energy solutions. Kingdom solar insists on continuous innovation around customer needs. We invest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



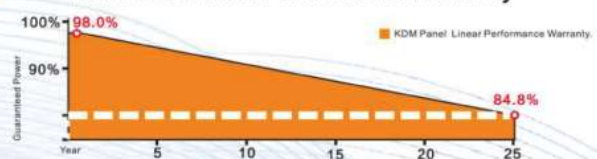
Strength and Durability

Certified for 5400Pa snow and 2400Pa loads test.

12+ Material & Workmanship warranty

25+ Linear power output warranty

KDM Panel Linear Performance Warranty



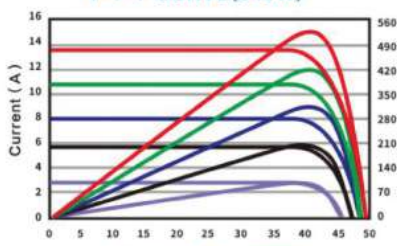
ELECTRICAL PARAMETERS AT STC & NOCT

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	OPERATING CONDITIONS	
Cell Dimensions	182mm	Power Tolerance (W)	(0,+3)
Cell Quantity	144pcs	Maximum System Voltage (V)	1000/1500VDC(IEC)
Weight	29kg	Temperature Coefficient Pmax	-0.35 %/°C
Module Dimensions	2256*1133*35mm	Temperature Coefficient Voc	-0.28%/°C
Cable	4.0 mm ² positive pole:240mm negative pole: 120mm,wire length can be customized	Temperature Coefficient Isc	+0.048 %/°C
Front Glass	3.2 mm Anti-Reflection Coating High Transmission Low Iron Tempered Glass	Nominal Operating Cell Temperature	45 ± 2 °C
Frame	Anodized aluminium alloy	Operating Temperature	-40°C-+85°C
Junction Box	Ip68 Rated	Maximum Series Fuse	25A
Connector	MC4-EVO2	PACKING CONFIGURATION	
Mechanical Load	Front side 5400Pa/ Rear side 2400Pa	Quantity/Cartoon	30pcs/big cartoon 10pcs/small cartoon
		Pallets/Container	11 big pallet/40HQ
		Quantity/Container	620pcs/40HQ

I-V-P CURVE(540W)



Isc, Voc, Pmax CURVE

