



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.

Toppest Power Panel, Future210

Maximum Output Wattage **555W**, Positive Tolerance **0~+3W**, Highest efficiency **21.2%**



KEY FEATURES



Anti
PID



Module efficiency up to 21.2%

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

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

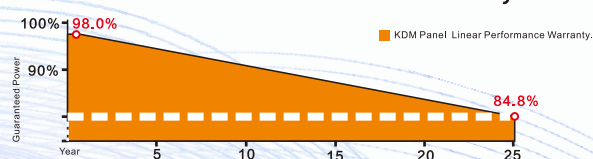
Strength and Durability

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

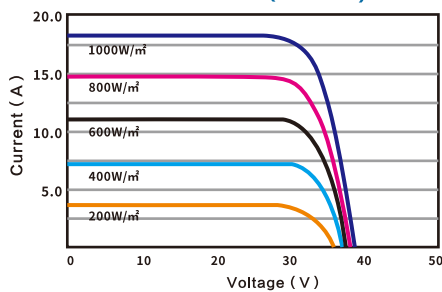
Module Type	KDM110-530-M12		KDM110-535-M12		KDM110-540-M12		KDM110-545-M12		KDM110-550-M12		KDM110-555-M12	
Rated Maximum Power (Pmax) [W]	530	401	535	405	540	409	545	413	550	417	555	420
Maximum Power Voltage (Vmp) [V]	30.8	28.6	31	28.8	31.2	29	31.4	29.2	31.6	29.3	31.8	29.5
Maximum Power Current (Imp) [A]	17.21	14.01	17.28	14.06	17.33	14.1	17.37	14.15	17.4	14.19	17.45	14.23
Open Circuit Voltage (Voc) [V]	37.1	35	37.3	35.1	37.5	35.3	37.7	35.5	37.9	35.7	38.1	35.9
Short Circuit Current (Isc) [A]	18.31	14.76	18.36	14.8	18.41	14.84	18.47	14.88	18.52	14.92	18.56	14.96
Module Efficiency [%]	20.3		20.5		20.7		20.9		21		21.2	

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	210mm	Power Tolerance (W)	(0,+3)
Cell Quantity	110pcs	Maximum System Voltage (V)	1500VDC (IEL) 1500VDC (UL)
Weight	28.60kg	Temperature Coefficient Pmax	-0.34%/°C
Module Dimensions	2384*1096*40mm	Temperature Coefficient Voc	-0.25%/°C
Cable	4.0 mm ² positive pole:280mm negative pole: 280mm,wire length can be customized	Temperature Coefficient Isc	+0.04%/°C
Front Glass	3.2 mm high transmittance,AR coating tempered glass	Nominal Operating Cell Temperature	45±2 °C
Frame	Anodized aluminium alloy	Operating Temperature	-40°C~+85°C
Junction Box	Protection class IP68	Maximum Series Fuse	30A
Connector	Mc4-EVO2	PACKING CONFIGURATION	
Mechanical Load	Front side 5400Pa/ Rear side 2400Pa	Quantity/Cartoon	27pcs/cartoon
		Pallets/Container	10big pallets/ 40HQ
		Quantity/Container	540pcs/40HQ

I-V CURVE (545W)



P-V CURVE (545W)

