



182 Series

540 -555W

MBB Mono Half-cell Module

POWER OUTPUT RANGE

540-555W

MAXIMUM MODULE EFFICIENCY

21.5%

POWER WARRANTY

30 years

***** Characteristic



Higher Power Output

1500V system voltage, reduce the



Guaranteed Output Power



Half-cell and Lower Power Loss Design



Best Solution to Harsh Conditions

Pass the mechanical load test, front 5400Pa and back 2400Pa



Excellent PID Resistance

Excellent Anti-PID Performance, guarantee less power degradation



High Reliability Based On Strict Quantity.Control

Over 100 internal tests including ultraviolet irrtadiation, heat-recycling, damp heat(DH) test, humidity-freeze(HF) test and etc.







TOENERGY Technical Parameter

Electrical Data @STC				
Peak power-Pmax(Wp)	540	545	550	555
Power tolerance(W)		±:	3%	
Open circuit voltage - Voc(V)	49.50	49.65	49.80	49.95
Maximum power voltage - Vmpp(V)	41.65	41.80	41.95	42.1
Short circuit current - Im(A)	13.85	13. 92	13. 98	14.07
Maximum power current - Impp(A)	12.97	13. 04	13. 12	13. 19
Module efficiency um(%)	20.9	21. 1	21. 3	21. 5

Standard testing condition(STC): Irradiance 1000W/m², Temperature 25°C, AM 1.5

∰ Mechanical Data		
Cell size	Mono182×182mm	
NO.of cells	144 Half Cells (6×24)	
Dimension	2278*1134*35mm	
Weight	27.2kg	
Glass	3.2mm high transmission,Anti-reflectioncoating toughened glass	
Frame	Anodized aluminum alloy	
Junction box	SeparatedJunction box IP68 3 bypass diodes	
Connector	AMPHENOLH4/MC4 connector	
Cable	4.0mm ² , 300mm PV CABLE, length can be customized	

👺 Temperature Ratings

Nominal operating cell temperature 45±2°C

Temperature coefficient of Pmax -0.35%/°C

-0.27%/°C Temperature coefficients of Voc

0.048%/°C Temperature coefficients of Isc

Maximum Ratings

Operating temperature -40°Cto+85°C

Maximum system voltage 1500v DC (IEC/UL)

Maximum series fuse rating 25A

Pass hail test Diameter 25mm, speed 23m/s

<u>::</u>: Warranty

12 Years Workmanship Warranty

30 Years Performance Warranty











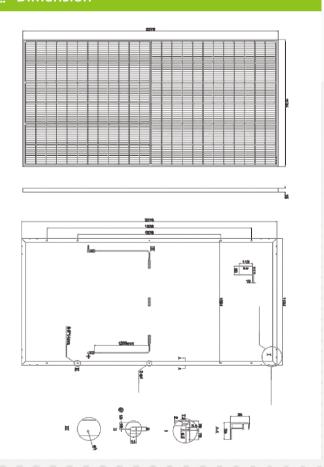




930 PCS

Dimension

Modules per 17.5m long flatcar



Please refer to TOENERGY Solar product warranty for details