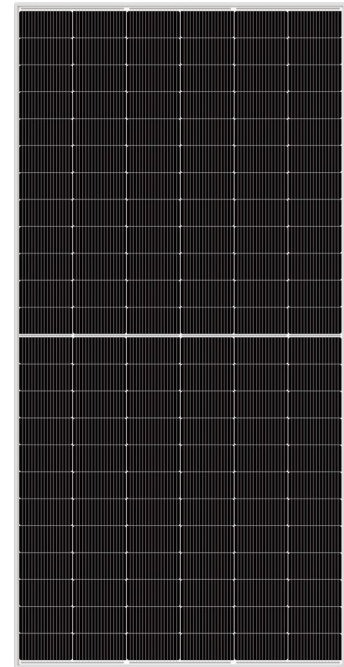


SPM540-555

Solar Panel Module Monocrystalline 540-555W

The modules are composed of high-efficiency solar cells, and a series of quality performance tests are carried out in accordance with strict quality standards during the production process to ensure that the modules can work normally in various harsh environments and to ensure the maximum output power of the modules when generating electricity.



Excellent low irradiance performance.



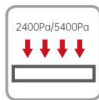
Better light trapping and current collection to improve module power output and reliability.



Industry leading lowest thermal co-efficient of power.



Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient.

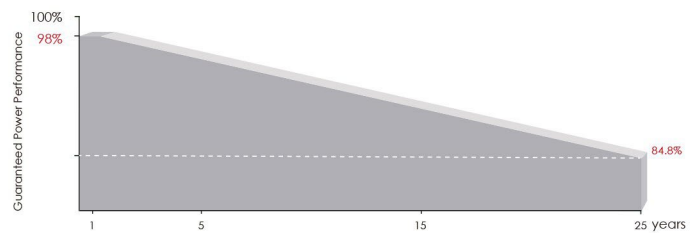


Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).



100% triple EL test enabling remarkable reduction of hidden crack rate of modules

LINEAR PERFORMANCE WARRANTY



15 years

Product quality & process guarantee

25 years

Linear power guarantee

0.55 %

Annual Degradation Over 25 years

ELECTRICAL CHARACTERISTICS

Model of modules	SPM540		SPM545		SPM550		SPM555	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — P_{mp} (W)	540	402	545	406	550	410	555	414
Open-circuit voltage — V_{oc} (V)	49.42	46.65	49.51	46.73	49.60	46.82	49.68	46.90
Short-circuit current — I_{sc} (A)	13.85	11.19	13.94	11.26	14.04	11.34	14.13	11.42
Maximum power voltage — V_{mp} (V)	40.71	38.11	40.76	38.16	40.83	38.22	40.89	38.28
Maximum power current — I_{mp} (A)	13.27	10.56	13.38	10.65	13.48	10.73	13.58	10.81
Module efficiency — η_m (%)	20.90		21.10		21.29		21.48	
Power tolerance (W)	(0,+5)							
Maximum system voltage (V)	1500							
Maximum rated fuse current (A)	25							
Current operating temperature (°C)	-40~+85°C							

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 °C, Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

STRUCTURAL CHARACTERISTICS

Module dimensions (L*W*H)	2278 x 1134 x 30 mm
Weight	27.6 kg
Number of cells	144 cells
Cell	PERC Monocrystalline
Glass	Tempered, 3.2 mm AR, High transmittance, Low iron
Frame	Anodized aluminum alloy (Silver/Black)
Junction box	IP68, 3 bypass diodes
Output wire	4.0 mm ² , wire length:300mm/1200mm/customized
Connector	MC4 Compatible
Mechanical load	Snow load: 5400 Pa / Wind load: 2400 Pa

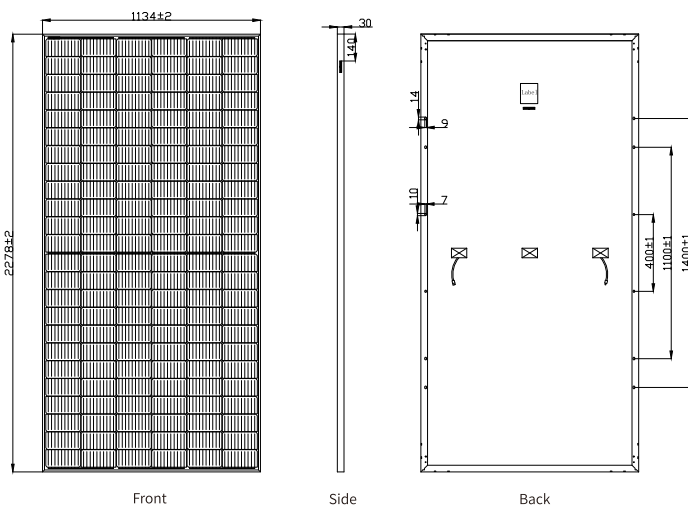
TEMPERATURE RATINGS

Temperature coefficient (P_{max})	-0.33 %/°C
Temperature coefficient (V_{oc})	-0.26 %/°C
Temperature coefficient (I_{sc})	+0.06 %/°C
Nominal operating cell temperature	43±2 °C

PACKAGING CONFIGURATION

Container	40HQ
Quantity/pallet	36
Pallets/container	20
Quantity/container	720

MODULE DIMENSIONS (MM)



* The unmarked tolerance is ±1 mm
Length shown in mm

