SOLARON
CONNECT TO THE SUN

SLN-144 Half Cut
M10 Mono PERC 550W

Excellent low irradiance performance.

PID FREE

Resistance to power attenuation passed System Voltage durability

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

Industry leading lowest thermal co-efficient of power.

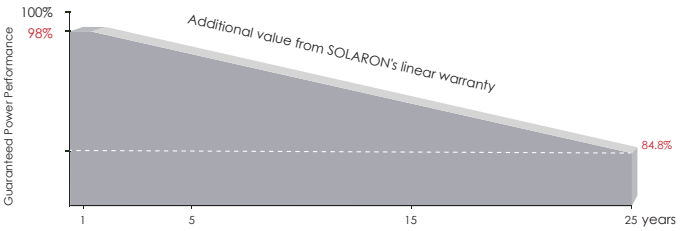
Optimized electrical design and lower operating current for reduced hot spot loss and better temperature

2400Pa/5400Pa

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



12 years
Product Warranty

25 years
Power Warranty

0.55 %
Annual Degradation
Over 25 years

COMPREHENSIVE CERTIFICATES

QR CODE

ISO 9001:Quality Management System

ISO 14001:Environmental Management System Standard

ISO 45001:International Occupational Health and Safety Assessment System Standard

IEC 61215: Terrestrial Photovoltaic(PV) modules Design Qualification and Type Approval

IEC 61730: Photovoltaic(PV) Modules Safety Qualification

IEC TS 62804: Detection of Potential-induced Degradation

* Different markets have different certification requirements. Also, the products are under rapid innovation.

ELECTRIC CHARACTERISTICS

144 cells

Model of modules	SLN-144 Half Cut M10 Mono PERC 550	
	STC	NMOT
Maximum power — P_{mp} (W)	550	412
Open-circuit voltage — V_{oc} (V)	49.60	46.82
Short-circuit current — I_{sc} (A)	14.04	11.35
Maximum power voltage — V_{mp} (V)	40.83	38.25
Maximum power current — I_{mp} (A)	13.48	10.73
Module efficiency — η_m (%)	21.3%	
Power production tolerance (W)	(0,+5)	
Maximum system voltage (V)	1500	
Maximum rated fuse current (A)	25	
Current operating temperature (℃)	-40~+85 ℃	

STC (Standard Testing Conditions): Irradiance 1000W/m^2, Cell Temperature 25 ℃, Spectra at AM1.5: according to IEC 60904-3
NMOT (Nominal Operating Cell Temperature): Irradiance 800W/m^2, Ambient Temperature 20℃, Spectra at AM1.5, Wind at 1m/s
*Specifications are subject to change without notice *Voc, Isc production tolerance ±3%

STRUCTURAL CHARACTERISTICS

Module dimensions (L*W*H)	2278 x 1134 x 35 mm (89.69 x 44.65 x 1.38 inch)
Weight	27.6 kg (60.85 lbs)
Number of cells	144 cells
Cell	PERC Monocrystalline 182x91 mm (7.17 x 3.58 inch)
Glass	Tempered, 3.2 mm AR, High transmittance, Low iron
Frame	Anodized aluminum alloy
Junction box	IP68
Output wire	4.0 mm^2, wire length:300mm/customized
Connector	MC4 Compatible

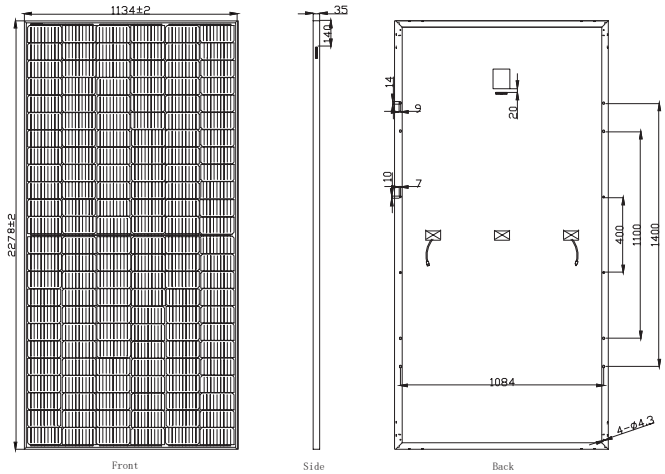
TEMPERATURE CHARACTERISTICS

Temperature coefficient (P_{max})	-0.35 %/℃
Temperature coefficient (V_{oc})	-0.27 %/℃
Temperature coefficient (I_{sc})	+0.048 %/℃
Nominal operating cell temperature	43℃

PACKAGING CONFIGURATION

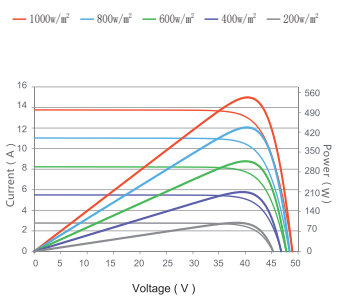
Container	40HQ
Quantity/pallet	31
Pallets/container	20
Quantity/container	620

MODULE DIMENSIONS (MM)

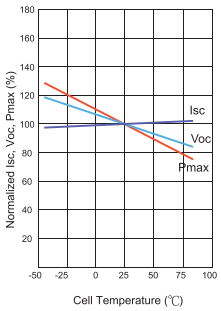


* The unmarked tolerance is ±1mm
Length shown in mm

Current-Voltage & Power-Voltage Curves (540W)



Temperature Dependence of Isc, Voc, Pmax



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