SOLARON
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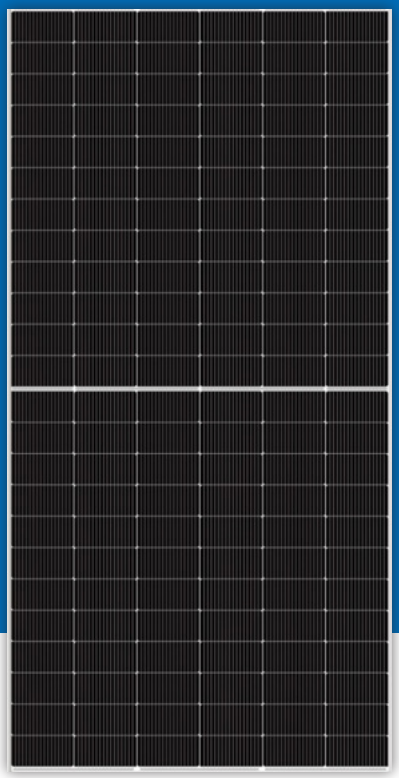
SLN-144 Half Cut M10
N-Type Bifacial 585W



30-year lifespan delivers 10-30% more power compared with conventional P-type modules

Bifacial technology enables additional energy harvesting from rear side (up to 30%)

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.

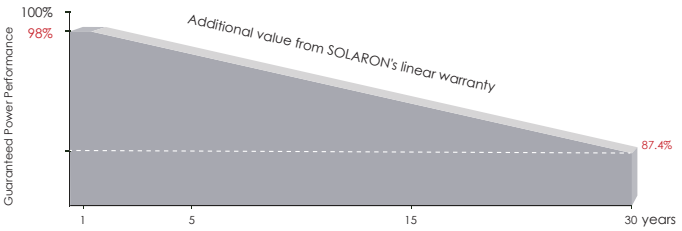
Optimized electrical design and lower operating current for reduced hot spot loss and better temperature

2400Pa/5400Pa

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

100% triple EL test which greatly reduces the hidden cracks rate

LINEAR PERFORMANCE WARRANTY



12 years
Product Warranty

30 years
Power Warranty

0.40 %
Annual Degradation

COMPREHENSIVE CERTIFICATES

INMETRO

QR CODE

ISO 9001:Quality Management System

ISO 14001:Environmental Management System Standard

ISO 45001:International Occupational Health and Safety Assessment System Standard

SA8000:2014 Social Accountability Management System

* 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 N-Type Bifacial 585W	
	STC	NMOT
Maximum power — P_{mp} (W)	585	448
Open-circuit voltage — V_{oc} (V)	52.16	49.94
Short-circuit current — I_{sc} (A)	13.85	11.16
Maximum power voltage — V_{mp} (V)	44.22	42.34
Maximum power current — I_{mp} (A)	13.23	10.58
Module efficiency — η_m (%)	22.6%	
Power production tolerance (W)	(0,+5)	
Maximum system voltage (V)	1500	
Maximum rated fuse current (A)	30	
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 30mm
Weight	31.5kg
Number of cells	144 cells
Cell	N-Type Monocrystalline
Glass	Front: 2.0mm, anti-reflection coating Back: 2.0mm, heat strengthened glass
Frame	Anodized aluminum alloy
Junction box	IP68, 3 bypass diodes
Output wire	4.0mm², wire length:300mm /1200mm/ customized
Connector	MC4 Compatible
Mechanical load	Snow load: 5400 Pa / Wind load: 2400 Pa

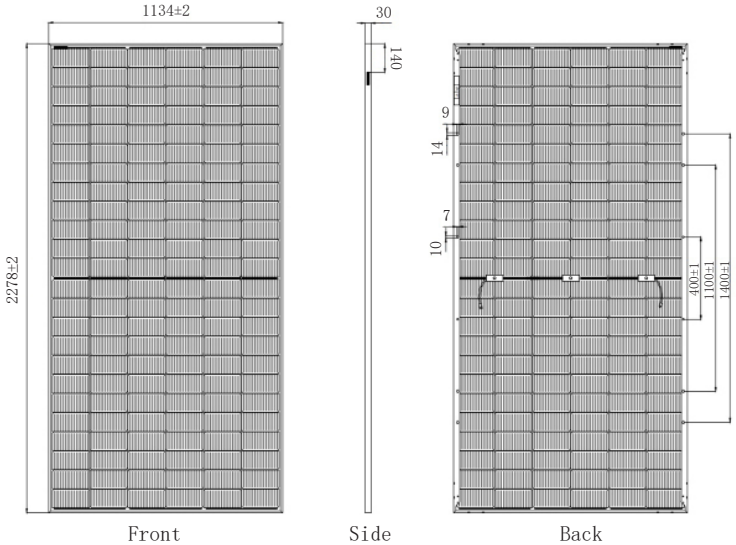
TEMPERATURE CHARACTERISTICS

Temperature coefficient (P_{max})	-0.30 %/℃
Temperature coefficient (V_{oc})	-0.28 %/℃
Temperature coefficient (I_{sc})	+0.004 %/℃
Nominal operating cell temperature	43±2℃

PACKAGING CONFIGURATION

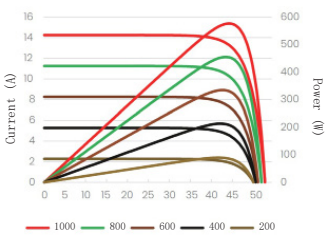
Container	40HQ
Quantity/pallet	36
Pallets/container	20
Quantity/container	720

MODULE DIMENSIONS (MM)

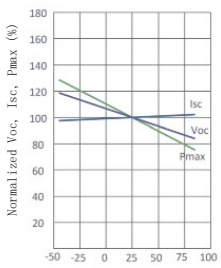


Current-Voltage & Power-Voltage

Current-Voltage & Power-Voltage Curves (585W)



Temperature Dependence of Isc, Voc, Pmax



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Web: www.solaron.am / email: info@solaron.am / address: RA, Yerevan, Arshakunyats 25/1 / tel: +374 10440055, +374 12440455