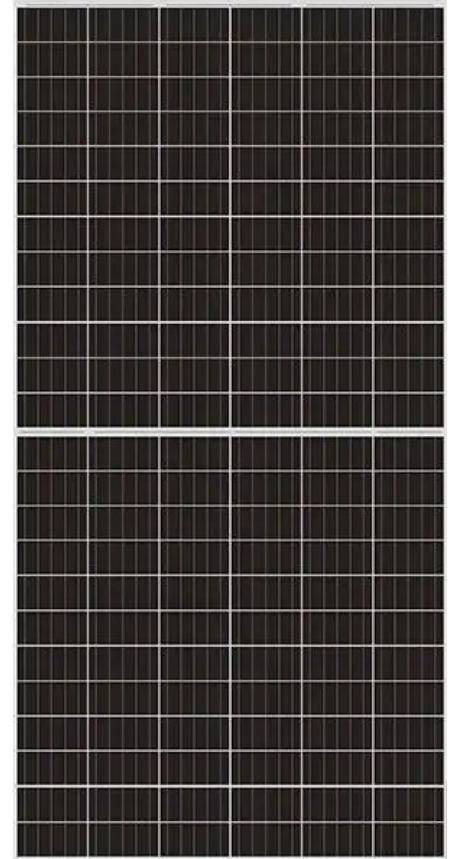


# G1 Series

## High Efficiency Monocrystalline Solar Modules

SLN-144 HalfCut G1 Mono PERC-395/400/405



### SOLARON: The name to be trusted

SLN-144 HalfCut G1 Mono PERC-XXX is a solar module with 144 high efficiency PERC mono-crystalline solar cells 158.75x79.37. These modules can be used for ON-Grid and OFF-Grid solar applications. Our design and manufacturing techniques ensure a high-yield, long-term performance for every produced module. Our quality control and in-factory testing facilities guarantee Solaron modules meet the highest quality standards possible.

When you choose Solaron, you get more than well-engineered products. You also get Solaron's proven reliability, outstanding customer service and the assurance of both our 12-year warranty on materials or workmanship as well as the 25-year limited warranty on power output.

### KEY FEATURES

- ◆ Dual stage 100% EL Inspection warranting defect-free product
- ◆ Positive power tolerance 0 ~ +3%
- ◆ Innovative PERC cell technology
- ◆ High quality IP68 potted junction box for long life time
- ◆ Reference module calibrated by Fraunhofer Institute (Germany), which make our modules datasheets more reliable

### MANAGEMENT SYSTEM



ISO 9001

Quality management system

ISO 14001

Standard for environmental management system

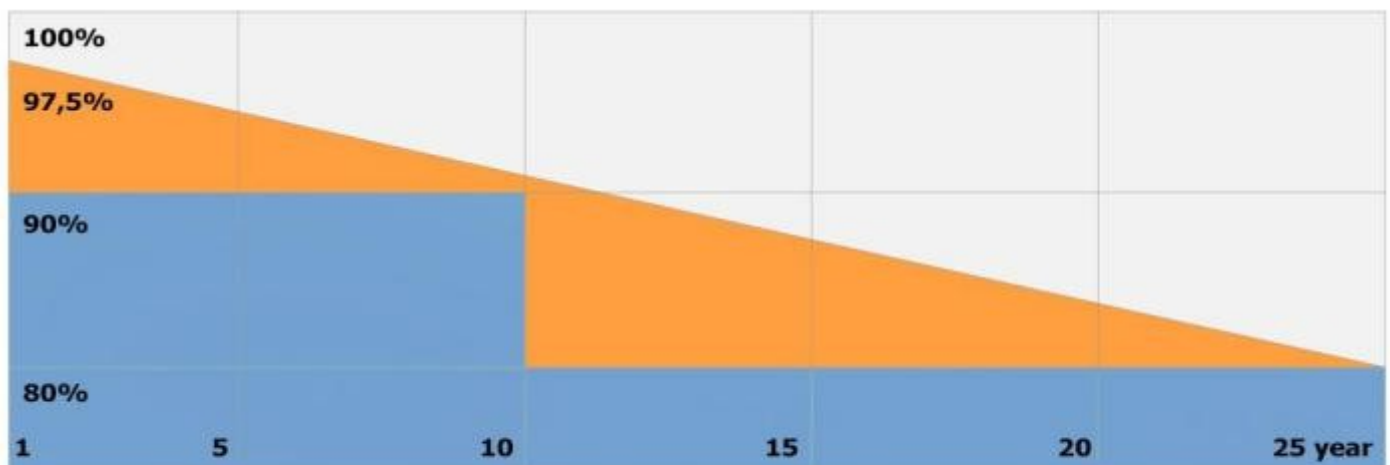
ISO 45001

International standard for occupational health and safety assessment system

### WARRANTY

25 - year linear power output warranty,

12 year material and workmanship warranty



SolarOn Linear power warranty Industry warranty

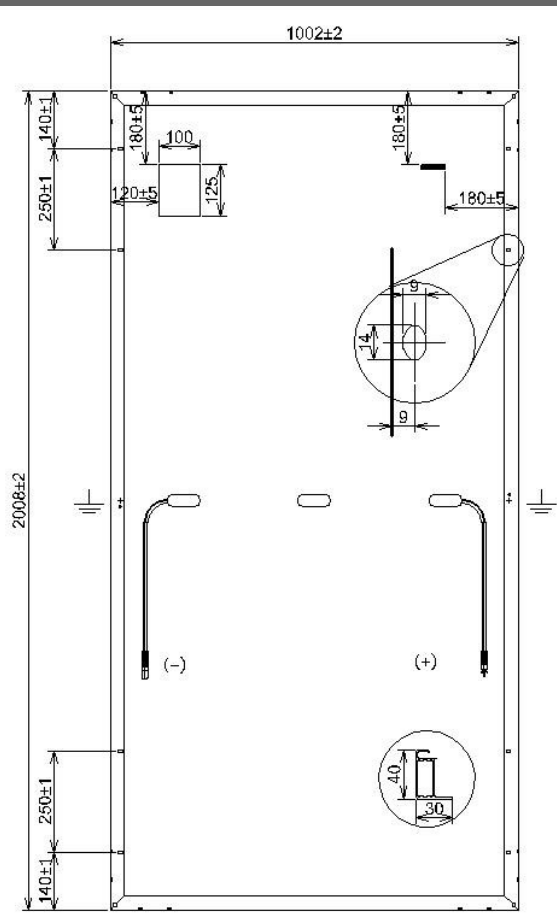
Electrical characteristics at STC				Temperature&Maximum operation	
Nominal Power ( $P_{max}$ )	395	400	405	(NMOT)	$43^{\circ}\text{C} \pm 2^{\circ}\text{C}$
Open Circuit Voltage ( $V_{oc}$ )	48.60	48.89	49.08	Temperature coeff $P_{max}$	$-0.37\% / ^{\circ}\text{C}$
Short Circuit Current ( $I_{sc}$ )	10.15	10.21	10.22	Temperature coeff $V_{oc}$	$-0.34\% / ^{\circ}\text{C}$
Voltage at Nominal Power ( $V_{mp}$ )	40.85	41.23	41.46	Temperature coeff $I_{sc}$	$0.06\% / ^{\circ}\text{C}$
Current at Nominal Power ( $I_{mp}$ )	9.69	9.73	9.78	Maximum System Voltage	1500V
Module Efficiency	19.63%	19.88%	20.12%	Maximum Series Fuse Rating	20A
Electrical characteristics at NMOT				Maximum Snow Load	3600 Pa
Nominal Power ( $P_{max}$ )	296	301	306	Maximum Wind Load	2400 Pa
Open Circuit Voltage ( $V_{oc}$ )	45.66	45.95	46.14	Maximum operating temperature	$-40^{\circ}\text{C} + 80^{\circ}\text{C}$
Short Circuit Current ( $I_{sc}$ )	8.24	8.30	8.32		
Voltage at Nominal Power ( $V_{mp}$ )	37.85	38.23	38.46		
Current at Nominal Power ( $I_{mp}$ )	7.71	7.75	7.80		

\*All electrical characteristics at STC ( 1000W/m2, (25±2)°C, AM 1.5 according to IEC 60904-3),

\*NMOT: Irradiance at 800W/m2, Ambient Temperature 20°C, Wind Speed 1m/s

\*Specifications are subject to change without notice

\*Power production tolerance: -0%;+3% , Voc production tolerance ±3%, Isc production tolerance ±3%

Construction materials		Engineering Drawings
Solar cells	Monocrystalline PERC 5BB 158.75x79.375 mm	
Cell configuration	144 cells (6x12+6x12)	
Front cover	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass	
Back cover	White Backsheet, TPT	
Frame	Anodized Aluminum	
J-Box	IP68, 1500DC, 3 bypass diodes	
Cables	4.0mm <sup>2</sup> (12AWG). 1200mm length (customer demand)	
Connector	IP67 QC4	
Module dimension	2008x1002x40 mm	
Module weight	23 kg	

Packaging Information	
Quantity/Pallet	27
Pallets/Container (40'HC)	24
Quantity/Container (40'HC)	648

