

# G1 156 Half-Cut Series

## High Efficiency Monocrystalline Solar Modules

### SLN-156 Half-Cut G1 Mono PERC - 440

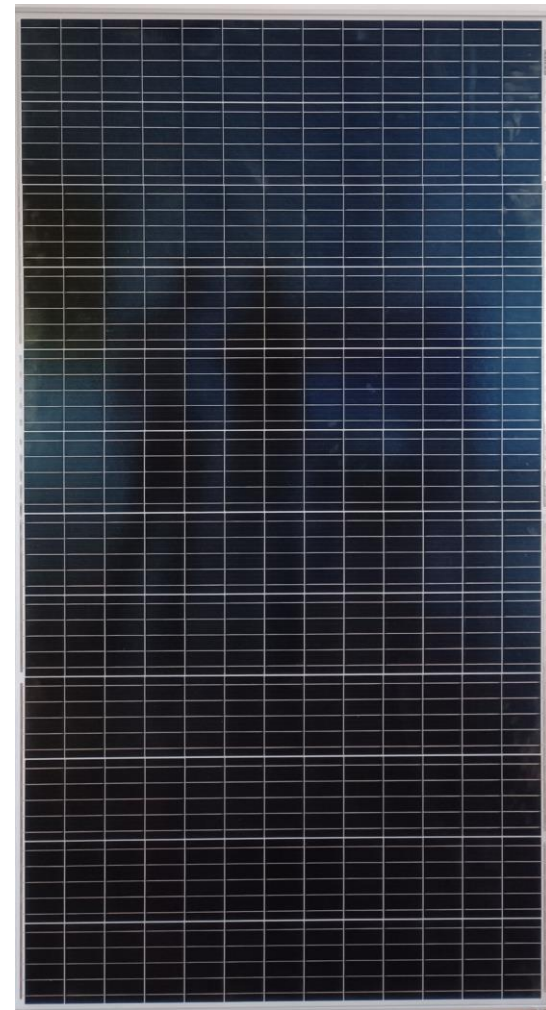


#### SolarOn: The name to be trusted

SLN-156 Half-Cut G1 Mono PERC 440 is a solar module with 156 Half-Cut high efficiency PERC mono-crystalline solar cells 158.75x79.37. 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.

#### 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**
- **Module power increases 5-25% generally (per different reflective condition) lower LCOE and higher IRR**
- **Light-weight design for easy installation and low BOS cost**
- **Excellent Anti-PID performance guarantee limited power degradation for mass production.**



#### MANAGEMENT SYSTEM



ISO 9001	Quality management system
ISO 14001	Standard for environmental management system
OHSAS 18001	International standard for occupational health and safety assessment system

#### WARRANTY

**25 - year linear power output warranty 12 year material and workmanship warranty**



Electrical characteristics at STC		Temperature & Maximum operation	
Nominal Power ( $P_{max}$ )	440	(NMOT)	$43^{\circ}\text{C} \pm 2^{\circ}\text{C}$
Open Circuit Voltage ( $V_{oc}$ )	56.63	Temperature coeff $P_{max}$	$-0.37\% / ^{\circ}\text{C}$
Short Circuit Current ( $I_{sc}$ )	10.21	Temperature coeff $V_{oc}$	$-0.34\% / ^{\circ}\text{C}$
Voltage at Nominal Power ( $V_{mp}$ )	45.28	Temperature coeff $I_{sc}$	$0.06\% / ^{\circ}\text{C}$
Current at Nominal Power ( $I_{mp}$ )	9.72	Maximum System Voltage	1500V
Module Efficiency	20.2%	Maximum Series Fuse Rating	20A
		Maximum Snow Load	3600 Pa
Nominal Power ( $P_{max}$ )	305	Maximum Wind Load	2400 Pa
Open Circuit Voltage ( $V_{oc}$ )	51.16	Maximum operating temperature	$-40^{\circ}\text{C} + 80^{\circ}\text{C}$
Short Circuit Current ( $I_{sc}$ )	9.3		
Voltage at Nominal Power ( $V_{mp}$ )	41.33		
Current at Nominal Power ( $I_{mp}$ )	8.62		

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

\*NMOT: Irradiance at 800W/m<sup>2</sup>, 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

Solar cells	Monocrystalline PERC 5BB 158.75x79.37 mm
Cell configuration	156 cells (6x13)+(6x13)
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	1966*1106*40mm
Module weight	23 kg

### Engineering Drawings

