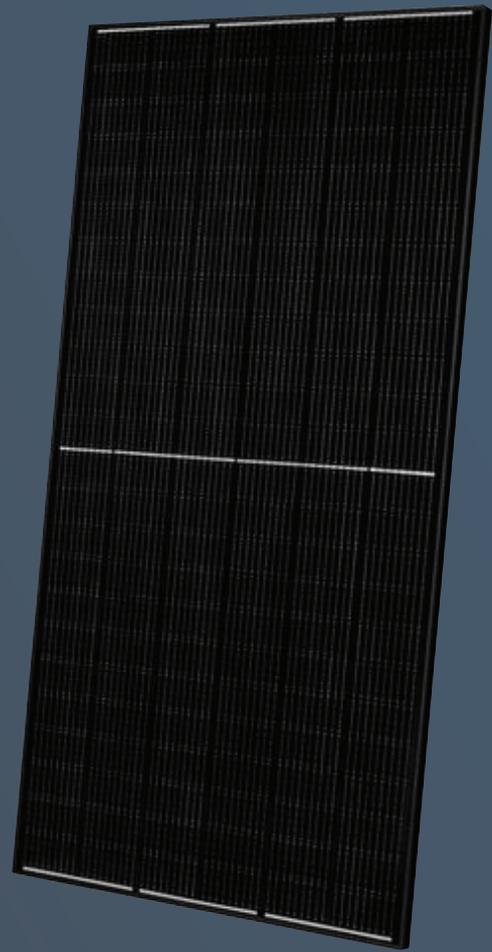# LA☰SOLAR

HALF CELL
LS450BL

144 CELLS
MONOCRYSTALLINE MODULE

450W
POWER OUTPUT RANGE

20.60%
MAXIMUM EFFICIENCY

0 to ±3%
POSITIVE POWER TOLERANCE

**DESIGNED IN USA
MADE IN ARMENIA**

30 YEAR WARRANTY

Main Characteristics

Mismatch loss reduction for maximum efficiency

Reduced power loss by minimizing the effect of shadow shading

Competitive low light performance
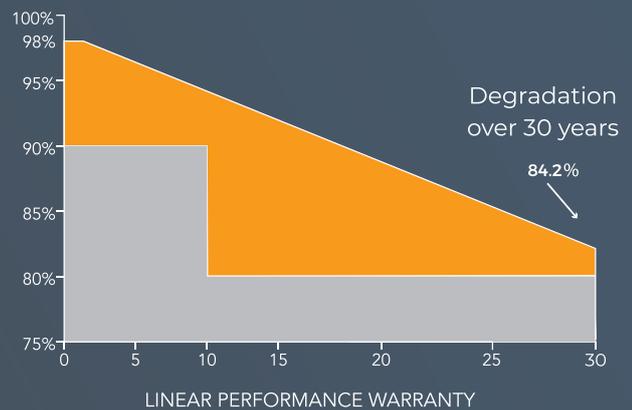
Two EL tests to ensure the best quality

BOS's reduced and increased ROI is ideal for commercial and industrial scale projects

Proven reliability through PVEL's rigorous weatherproofing tests:

- Dust, acid, and alkali resistance, hail test
- 2400Pa wind pressure and 5400Pa snow pressure
- Anti-PID

Degradation over 30 years

84.2%

LINEAR PERFORMANCE WARRANTY

QUALIFICATIONS AND CERTIFICATES

ETL LISTED c us
Intertek 5020665
DEKRA Certified

**UL/IEC61215, UL/IEC61730
ANTI-PID IEC TS 62804-1:2015
ISO9001, ISO14001, ISO45001**

GSCI   EAC   CE

Electrical Characteristics

Component Model

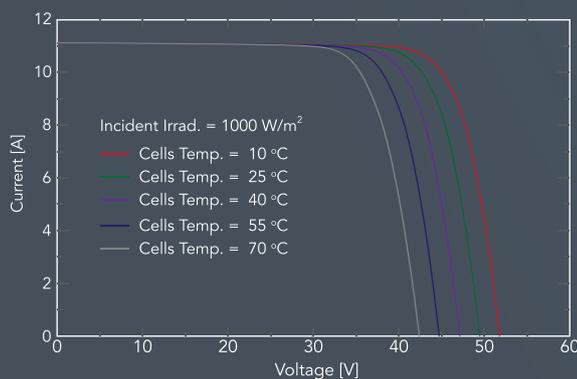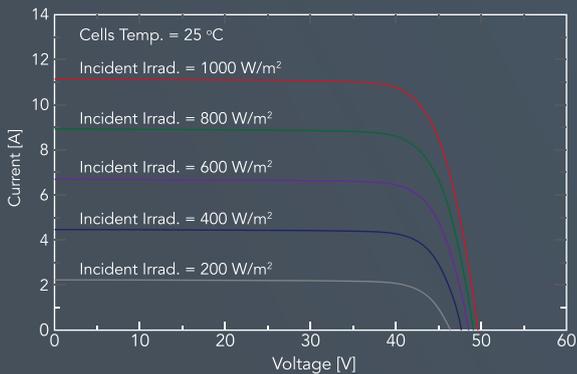|	LS450BL
	STC
Maximum Power (Pmax)	450W
Module Efficiency	20.60%
Open Circuit Voltage (Voc)	49.60V
Short Circuit Current (Isc)	11.53A
Maximum Power Voltage (Vmp)	41.00V
Maximum Power Current (Imp)	10.98A
Power Tolerance	±3%
Maximum System Voltage	1500V
Maximum Rated Fuse Current	35A
STC: Irradiance	1000 W/m²
Module Temperature	25 °C

41.26

Drain Hole 8-0.3*0.2

8- 0.3*0.4 Installing Hole

Grounding Hole 2 - 0.3

Grounding identification

82.99
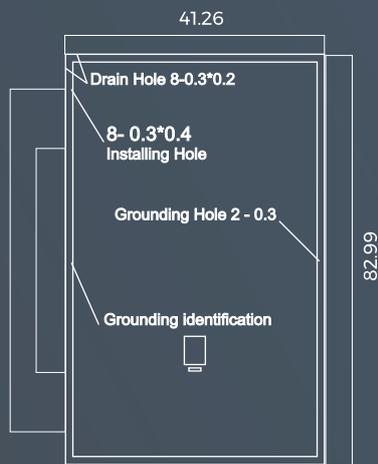
Temperature Characteristics

Maximum Power Temperature Coefficient (TC Pmax)	-0.35 % / °C
Temperature Coefficient of Open Circuit Voltage (TC Voc)	-0.27 % / °C
Temperature Coefficient of Short Circuit Current (TC Isc)	0.05 % / °C
Working Temperature	-40 ~ +85 °C
Nominal Operating Cell Temperature (NOCT)	46 ± 2 °C

Cells Temp. = 25 °C

Incident Irrad. = 1000 W/m²

Incident Irrad. = 800 W/m²

Incident Irrad. = 600 W/m²

Incident Irrad. = 400 W/m²

Incident Irrad. = 200 W/m²

Current [A] / Voltage [V]

Structural Characteristics

Module Size	82.99x41.26x1.38 in
Weight	52.91lbs
Cell type	MONO PERC 6.53x3.26in (144 pieces)
Glass	3.2mm tempered Ar coated
Frame	Black anodized aluminum alloy
Junction Box	IP68, 3 diodes
Mechanical Load	front 5400Pa / back 2400Pa
Connector	MC4
Wire Type	compatible PV wire
Fire Performance	Type 1
Protection Class	Class II (Classified as per IEC 61140)

Incident Irrad. = 1000 W/m²

— Cells Temp. = 10 °C
— Cells Temp. = 25 °C
— Cells Temp. = 40 °C
— Cells Temp. = 55 °C
— Cells Temp. = 70 °C

Current [A] / Voltage [V]

Packing Method

Container	40' HQ
Quantity Per Pallet	30
Number of Pallets Per Container	22
Quantity Per Container	660