



HALF CELL

LS430-LS450BL

144 CELL

MONOCRYSTALLINE MODULE

430W-450W

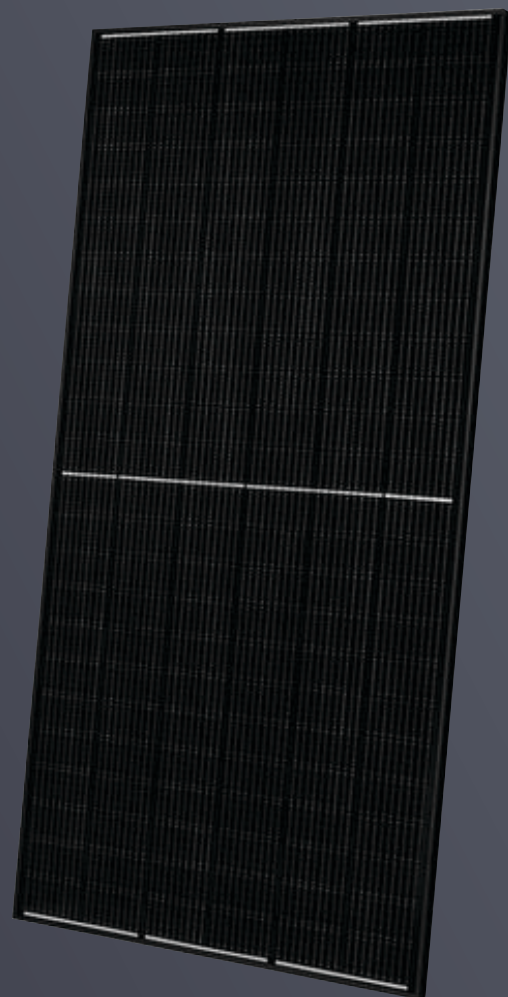
POWER OUTPUT RANGE

20.60%

MAXIMUM EFFICIENCY

0 ± 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

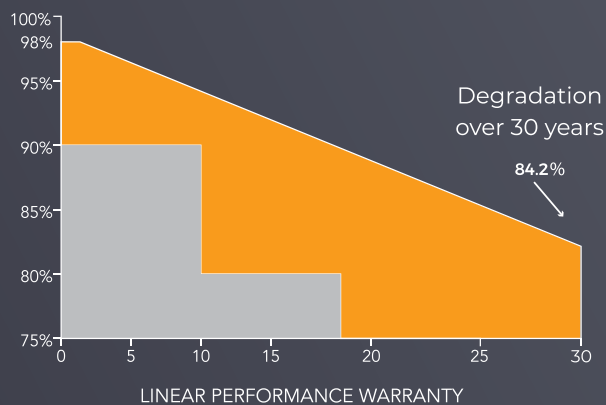


BOS's reduced and increased ROI is ideal for commercial and industrial scale projects



Proven reliability through PVEL's rigorous weatherproofing tests:

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

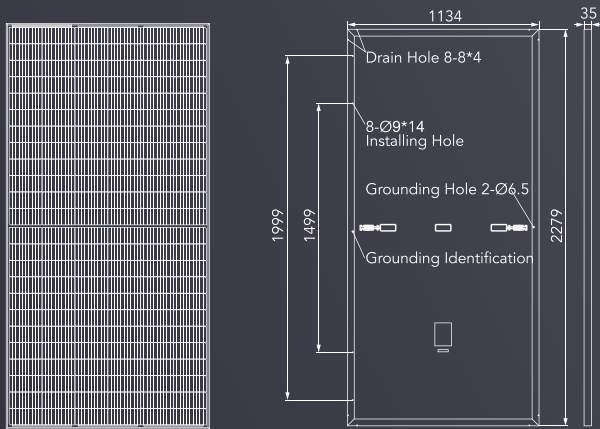


QUALIFICATIONS AND CERTIFICATES



Electrical Characteristics

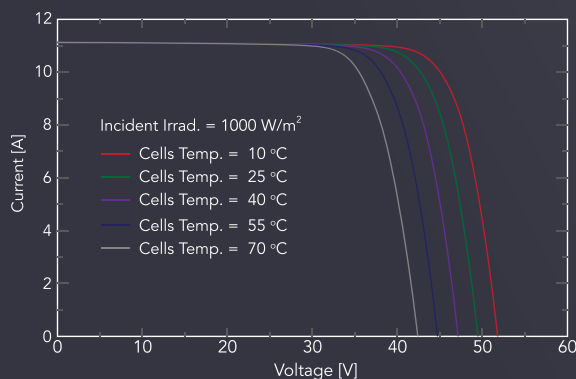
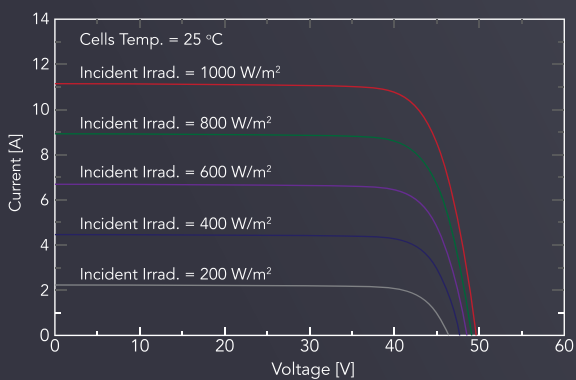
Component Model	LS430BL	LS435BL	LS440BL	LS445BL	LS450BL
Maximum Power (Pmax)	STC 430W	STC 435W	STC 440W	STC 445W	STC 450W
Module Efficiency	19.7%	19.9%	20.1%	20.4%	20.6%
Open Circuit Voltage (Voc)	48.80V	49.00V	49.20V	49.40V	49.60V
Short Circuit Current (Isc)	11.24A	11.31A	11.39A	11.46A	11.53A
Maximum Power Voltage (Vmp)	40.30V	40.50V	40.70V	40.80V	41.00V
Maximum Power Current (Imp)	10.66A	10.74A	10.82A	10.90A	10.98A
Power Tolerance	±3%				
Maximum System Voltage	1500V				
Maximum Rated Fuse Current	35A				
STC: Irradiance	1000 W/m ²				
Module Temperature	25 °C				



Temperature Characteristics

Maximum Power Temperature Coefficient (TC Pmax)	-0.35 % / °C
Temperature Coefficient of Open Circuit Voltage (TC Voc)	-0.28 % / °C
Temperature Coefficient of Short Circuit Current (TC Isc)	0.04 % / °C
Working Temperature	-40 ~ +85 °C
Nominal Operating Cell Temperature (NOCT)	46 ± 2 °C

Structural Characteristics



Module Size	82.9x41.2x1.5in
Weight	52.9lbs (24kg)
Cell type	Mono PERC 7.1x3.5 in (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)

Packing Method

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