



HALF CELL

LS430-450HC

144 CELLS

MONOCRYSTALLINE MODULE

430W-450W

POWER OUTPUT RANGE

20.60%

MAXIMUM EFFICIENCY

0 to $\pm 3\%$

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

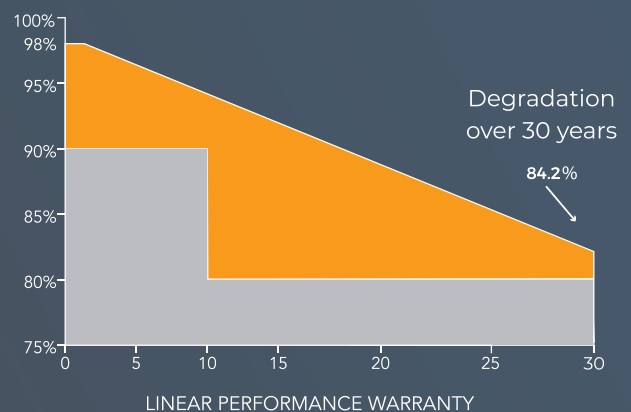
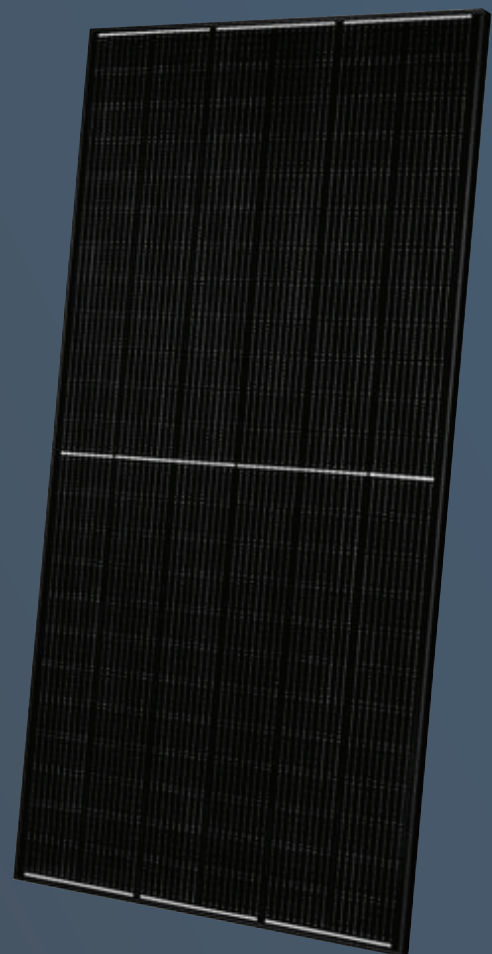


BOS's reduced and increased ROI is ideal for commercial and industrial scale projects



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

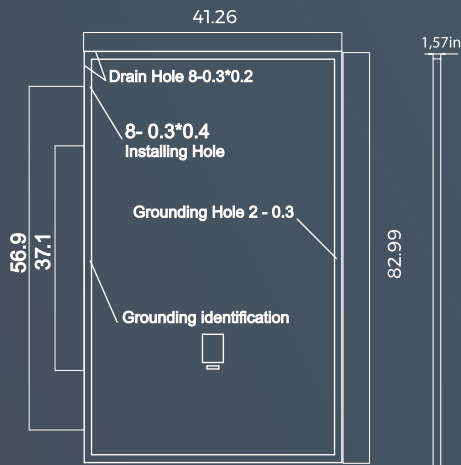


UL/IEC61215, UL/IEC61730
ANTI-PID IEC TS 62804-1:2015
ISO9001, ISO14001, ISO45001



Electrical Characteristics

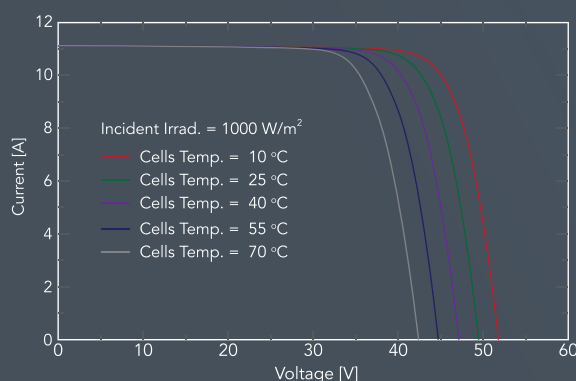
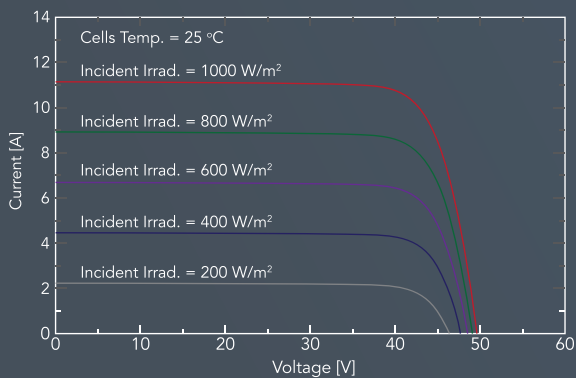
Component Model	LS430BL	LS435BL	LS440BL	LS445BL	LS450BL
	STC	STC	STC	STC	STC
Maximum Power (Pmax)	430W	435W	440W	445W	450W
Module Efficiency	19.70%	19.90%	20.10%	20.40%	20.60%
Open Circuit Voltage (Voc)	48.80V	49.00V	49.20V	49.40V	49.60V
Short Circuit Current (Isc)	11.24A	11.31A	11.39A	11.46A	11.53A
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	20A				
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)	-0.27 % / °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

Structural Characteristics



Module Size	82.99 x 41.25 x 1.57in
Weight	52.91 lbs
Cell type	MONO PERC 6.53 x 3.26in (144 pieces)
Glass	0.125in 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