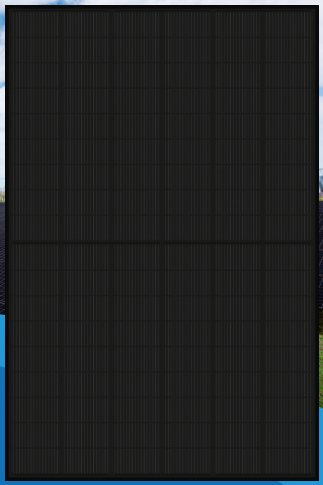
PERLIGHT NTA 430W

PLM-430H8NB-108 SERIES

Half -Cell N-Type Mono Black Module
Power Range 415W-435W



MODULE FEATURES

High Power Output

- Enhancing the ability to capture and collect light improves both the power output and reliability of the module.

Outstanding Low Light Performance

- Produce greater power output when exposed to low-light conditions, such as during cloudy or foggy weather.

Zero LID (Light Induced Degradation)

- N-type solar cells do not suffer from LID, and therefore increase power generation compared to other types of cells.

Better Temperature Coefficient

- Higher power generation under working conditions, thanks to passivating contact cell technology.

PID Resistance

- By optimising the process of mass production and controlling the materials, we ensure an outstanding performance in preventing PID (potential-induced degradation).

Enhanced Mechanical Load

- Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa)

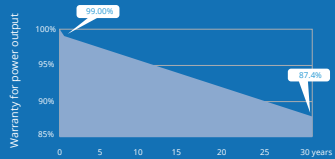
Withstanding Harsh Environments

- The assurance of dependable quality results in enhanced sustainability, even in challenging environments such as deserts, farms, and coastlines.

LINEAR PERFORMANCE WARRANTY

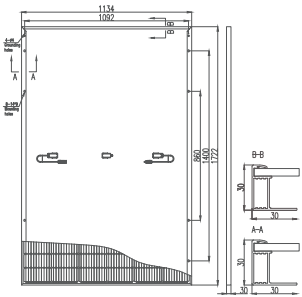
30 years limited product warranty | **30** years performance warranty

22.28% MAX MODULE EFFICIENCY



PERLIGHT
smart.black

DRAWINGS



Power Output (Wp)	415	420	425	430	435
Voltage Mpp-Vmpp (V)	31.44	31.63	31.81	31.99	32.17
Current Mpp-Impp (A)	13.20	13.28	13.36	13.44	13.52
Voltage Open Circuit Voc- (V)	37.83	38.02	38.21	38.40	38.59
Short Circuit Current-Isc (A)	13.97	14.05	14.13	14.21	14.29
Module Efficiency (%)	21.25	21.51	21.76	22.02	22.28

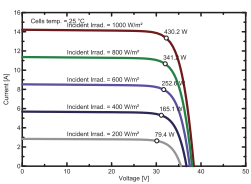
*STC: Irradiance 1000W/m², Cell Temperature 25°C, AM 1.5

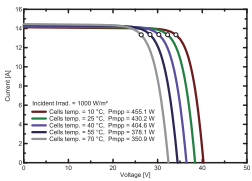
ELECTRICAL CHARACTERISTICS (NOCT*)

Power Output (Wp)	314	318	322	326	329
Voltage Mpp-Vmpp (V)	29.57	29.75	29.93	30.07	30.16
Current Mpp-Impp (A)	10.62	10.69	10.76	10.84	10.91
Voltage Open Circuit-Voc (V)	35.97	36.16	36.35	36.54	36.73
Short Circuit Current-Isc (A)	11.24	11.31	11.37	11.43	11.49

*NOCT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m²/s

I-V CURVE





MECHANICAL PROPERTIES

Cell Size	182mm x 91mm
Number of Cells	108 [2x (9x3)]
Module Dimension	1722 x 1134 x 30mm (LxWxH)
Frame	Anodized Aluminium Alloy
Front Glass	High Transmission Glass 3.2mm
Weight	21.5kg
Junction Box	IP68, 3 diodes
Cable Length	TUV 1x4.0mm², (+):1200mm/(-):1200mm
Packaging	36pcs/box; 936pcs/40'HQcontainer

OPERATION PROPERTIES

Operating Temperature	40°C (±2°C) + 85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	±3%

TEMPERATURE COEFFICIENT

Temperature Coefficient of Pmax	-0.310%/°C
Temperature Coefficient of Voc	-0.260%/°C
Temperature Coefficient of Isc	0.046%/°C
Nominal Operating Cell Temperature (NOCT)	42±2°C

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