

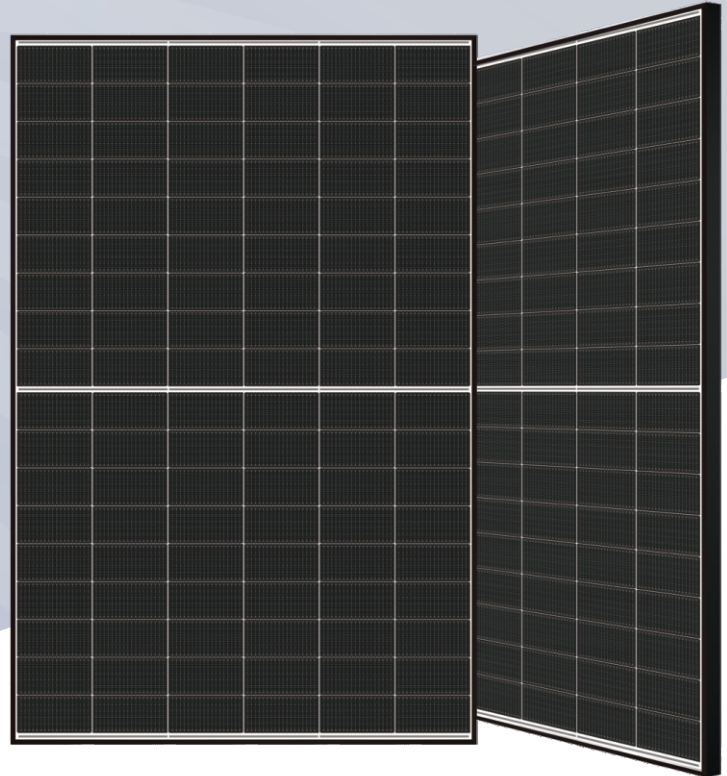


PERLIGHT SOLAR  
Powering Possibilities

# PLM-500DH8NH-108 SERIES

Double Glass

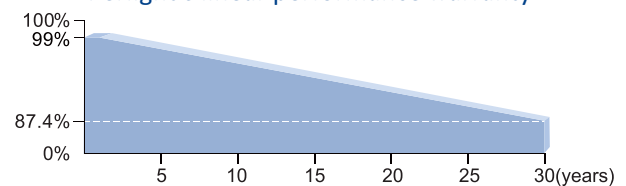
N-Type Half-Cell Module  
Power Range 485W-505W



Insurance



Perlight's linear performance warranty



**22.72%**

MAX MODULE EFFICIENCY  
AFTER INSTALLED

**15**

YEARS LIMITED  
PRODUCT WARRANTY

**30**

YEARS PERFORMANCE  
WARRANTY



## High Power Output

- Better light trapping and current collection to improve module power output and reliability



## Outstanding Low Light Performance

- Higher power output even under low-light environments like on cloudy or foggy days



## Low LID (Light Induced Degradation)

- Low LID naturally which can increase power generation



## Better Temperature Coefficient

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



## PID Resistance

- Excellent Anti-PID performance guarantee via optimized mass-production process and materials control



## Enhanced Mechanical Load

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

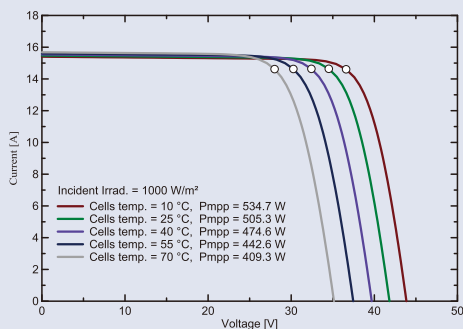
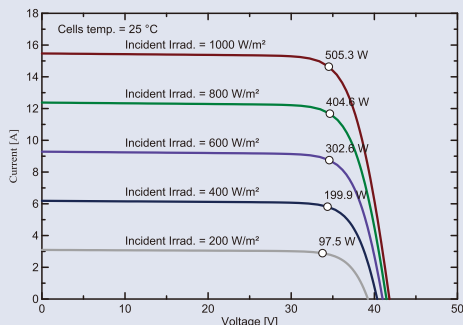
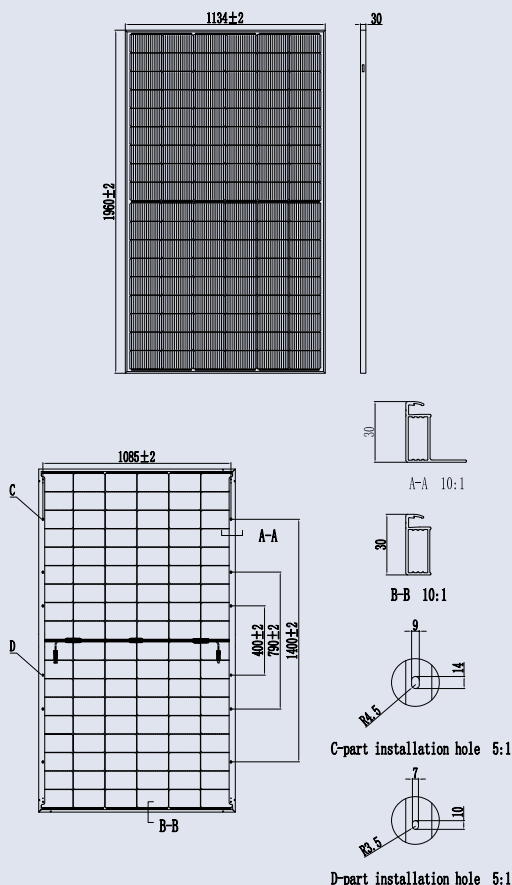


## Withstanding Harsh Environment

- Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline



**PERLIGHT SOLAR**  
Powering Possibilities



Perlight Partners

## Electrical Properties (STC\*)

|                               |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|
| Power Output (Wp)             | 485   | 490   | 495   | 500   | 505   |
| Voltage Mpp-Vmpp (V)          | 33.97 | 34.1  | 34.23 | 34.36 | 34.49 |
| Current Mpp-Impp (A)          | 14.29 | 14.38 | 14.47 | 14.56 | 14.65 |
| Voltage Open Circuit-Voc (V)  | 41.22 | 41.37 | 41.52 | 41.67 | 41.82 |
| Short Circuit Current-Isc (A) | 15.27 | 15.32 | 15.37 | 15.42 | 15.47 |
| Module Efficiency (%)         | 21.82 | 22.04 | 22.27 | 22.50 | 22.72 |

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

## Electrical Properties (BSTC\*)

|                               |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|
| Power Output (Wp)             | 545   | 550   | 555   | 560   | 565   |
| Voltage Mpp-Vmpp (V)          | 33.97 | 34.10 | 34.23 | 34.36 | 34.49 |
| Current Mpp-Impp (A)          | 16.03 | 16.12 | 16.21 | 16.30 | 16.39 |
| Voltage Open Circuit-Voc (V)  | 41.22 | 41.37 | 41.52 | 41.67 | 41.82 |
| Short Circuit Current-Isc (A) | 17.01 | 17.07 | 17.13 | 17.19 | 17.25 |

\*BSTC: Front side irradiance 1000W/m², back side reflection irradiance 135W/m², AM=1.5, ambient temperature 25°C.

## Electrical Properties (NOCT\*)

|                               |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|
| Power Output (Wp)             | 368   | 372   | 376   | 380   | 384   |
| Voltage Mpp-Vmpp (V)          | 32.33 | 32.44 | 32.55 | 32.66 | 32.77 |
| Current Mpp-Impp (A)          | 11.44 | 11.51 | 11.58 | 11.65 | 11.72 |
| Voltage Open Circuit-Voc (V)  | 39.35 | 39.49 | 39.63 | 39.77 | 39.91 |
| Short Circuit Current-Isc (A) | 12.22 | 12.26 | 12.3  | 12.34 | 12.38 |

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

## Mechanical Properties

|                  |                                                           |
|------------------|-----------------------------------------------------------|
| Cell             | N Type Monocrystalline Cell                               |
| Number of Cells  | 108 [ 2× (9×6) ]                                          |
| Module Dimension | 1960×1134×30mm(L×W×H)                                     |
| Weight           | 27.6Kg                                                    |
| Front Glass      | 2.0mm Tempered Glass                                      |
| Rear Glass       | 2.0mm Tempered Glass                                      |
| Frame            | Anodized Aluminium Alloy                                  |
| Junction Box     | IP 68 ( 3 Diodes )                                        |
| Cable Length     | TUV 1×4.0 mm², (+):1200mm/(-):1200mm or Customized Length |
| Connector        | Stäubli MC4 EVO 2A                                        |

## Packaging Configuration

|                   |       |
|-------------------|-------|
| Packing Type      | 40'HQ |
| Piece / Pallet    | 36    |
| Piece / Container | 792   |

## Operating Properties

|                            |                |
|----------------------------|----------------|
| Operating Temperature      | -40°C ~ +85°C  |
| Maximum System Voltage     | 1500V DC (IEC) |
| Maximum Series Fuse Rating | 30A            |
| Power Tolerance            | ±3%            |
| Bifaciality                | 80%            |

## Temperature Coefficient

|                                           |            |
|-------------------------------------------|------------|
| Temperature Coefficient of Pmax           | -0.30%/°C  |
| Temperature Coefficient of Voc            | -0.25%/°C  |
| Temperature Coefficient of Isc            | +0.046%/°C |
| Nominal Operating Cell Temperature (NOCT) | 45±2°C     |