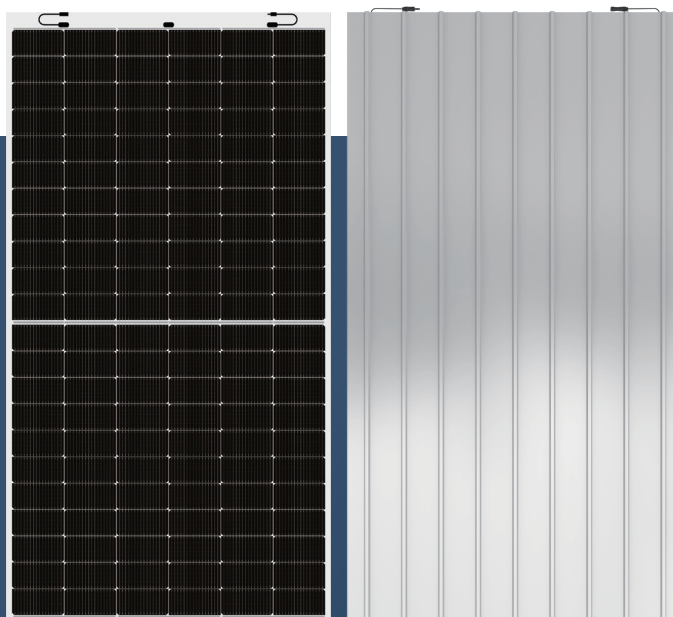


# Lightweight Half-Cell Module DAS-LH132PA

## 455W~475W



## Key Features



### Lightweight

Optimized composite materials, 70% lighter at the same power



### Half Cell, SMBB Technology

Series-then-parallel cell connection design, more reliable soldering technology



### Low NMOT

As low as 43°C, improving the power generation efficiency



### Easy transportation and installation

Original design making it far less costly for transportation and installation



### Customization

Customization for various scenarios, high additional value



### Superior Low Irradiance Performance

Excellent low irradiance performance, increase power generation in low-light conditions like mornings, evenings and cloudy days

Maximum  
Power Output

## 475W

Maximum  
Module Efficiency

## 20.8%

Power Output  
Tolerance

## 0~+5W

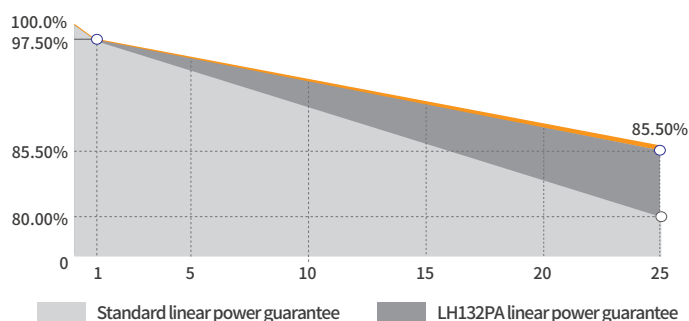
## Product and Quality Certifications

IEC 61215, IEC 61730

ISO 9001: Quality Management System

ISO 14001: Environment Management System

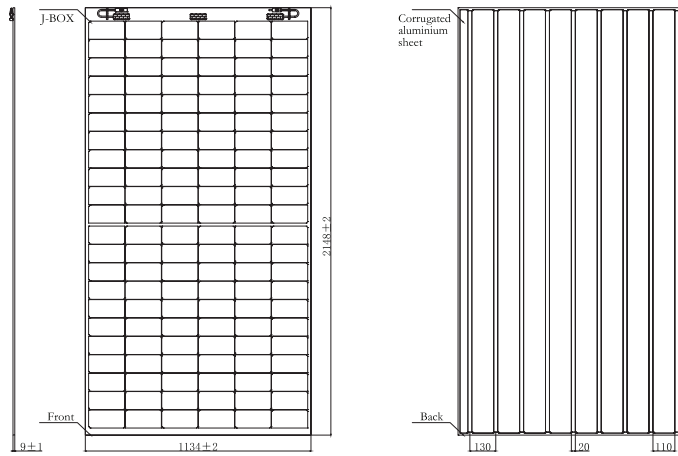
ISO 45001: Occupational Health and Safety Management System



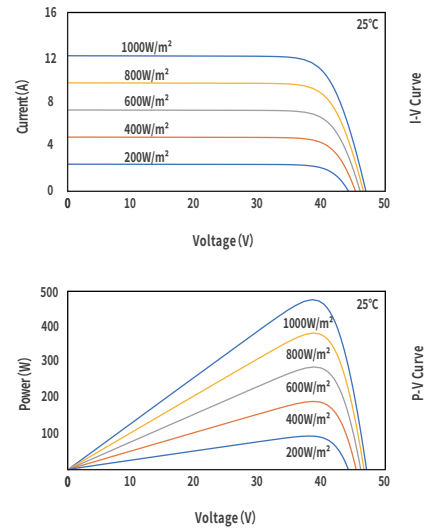
## Leading product and power warranty

-2.50% 1st-year Degradation -0.50% Annual Degradation 12 Materials and workmanship warranty 25 Linear power warranty

## Engineering Drawing (mm )



## Characteristic Curves(470W)



## Electrical Parameters (STC \* )

|                              |       |       |       |       |       |
|------------------------------|-------|-------|-------|-------|-------|
| Nominal Max. Power(Pmax/W)   | 455   | 460   | 465   | 470   | 475   |
| Open Circuit Voltage(Voc/V)  | 45.50 | 45.65 | 45.79 | 45.93 | 46.06 |
| Short Circuit Current(Isc/A) | 12.67 | 12.76 | 12.85 | 12.93 | 13.02 |
| Operating Voltage(Vmp/V)     | 37.72 | 37.87 | 38.01 | 38.15 | 38.28 |
| Operating Current(Imp/A)     | 12.06 | 12.15 | 12.24 | 12.32 | 12.41 |
| Efficiency(%)                | 19.9  | 20.1  | 20.3  | 20.6  | 20.8  |

STC \* : Irradiance = 1000 W/m<sup>2</sup>, Cell Temperature = 25°C, AM = 1.5  
Test condition is based on the front side

## Mechanical Parameters

|                  |                                                           |
|------------------|-----------------------------------------------------------|
| Cell Type        | P Type                                                    |
| Module Size      | 2148×1134×9mm                                             |
| Module Thickness | 9mm                                                       |
| Module Weight    | 10.2Kg                                                    |
| Output Cable     | 4mm <sup>2</sup> , cable length 250mm (can be customized) |
| Connector        | MC4 Similar                                               |
| Junction Box     | IP68, 3 bypass diodes                                     |
| Frame            | No Frame                                                  |

## Electrical Parameters (NMOT \* )

|                              |       |       |       |       |       |
|------------------------------|-------|-------|-------|-------|-------|
| Nominal Max. Power(Pmax/W)   | 341.7 | 345.5 | 349.2 | 353.0 | 356.7 |
| Open Circuit Voltage(Voc/V)  | 43.35 | 43.50 | 43.63 | 43.76 | 43.89 |
| Short Circuit Current(Isc/A) | 10.21 | 10.28 | 10.35 | 10.42 | 10.49 |
| Operating Voltage(Vmp/V)     | 35.16 | 35.30 | 35.43 | 35.57 | 35.69 |
| Operating Current(Imp/A)     | 9.72  | 9.79  | 9.86  | 9.93  | 9.99  |

NMOT \*: Irradiance = 800 W/m<sup>2</sup>, Ambient Temperature = 20°C, AM = 1.5,  
Wind Speed = 1 m/s  
Test condition is based on the front side

## Operating Parameters

|                         |                           |
|-------------------------|---------------------------|
| Max. System Voltage     | DC1500V                   |
| Power Tolerance         | 0 ~ +5 W                  |
| Operating Temperature   | -40°C ~ +85°C             |
| Max. Fuse Rated Current | 22A                       |
| Static Load             | Front 5400Pa, Back 2400Pa |

## Temperature Coefficients

|                            |            |
|----------------------------|------------|
| Short Circuit Current(Isc) | +0.038%/°C |
| Open Circuit Voltage(Voc)  | -0.262%/°C |
| Nominal Max. Power(Pmax)   | -0.341%/°C |
| NMOT                       | 43±2°C     |

## Packing Data

|                  |       |       |
|------------------|-------|-------|
| Packing Type     | 20'GP | 40'HQ |
| Piece/Pallet     | 54    | 54    |
| Pallet/Container | 8     | 18    |
| Piece/Container  | 432   | 972   |

