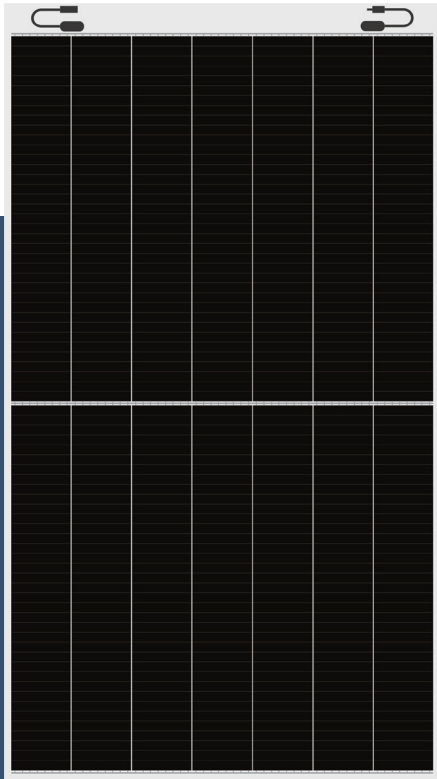


# Lightweight High Density Module DAS-LOJP

## 415W~430W



### Key Features

- Lightweight**  
 Optimized composite materials, 60% lighter at the same power
- Flexible**  
 Flexional encapsulating and patent materials
- Excellent Appearance and Performance**  
 Esthetics module design, no flare effect, "0" risk of micro crack
- 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

**430W**

Maximum Module Efficiency

**20.8%**

Power Output Tolerance

**0~+5W**

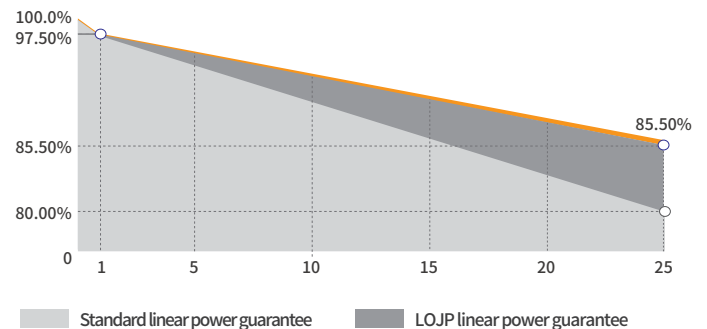
### Product and Quality Certifications

IEC 61215, IEC 61730

ISO 9001: Quality Management System

ISO 14001: Environment Management System

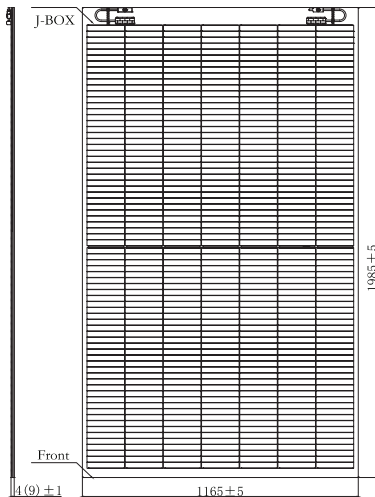
ISO 45001: Occupational Health and Safety Management System



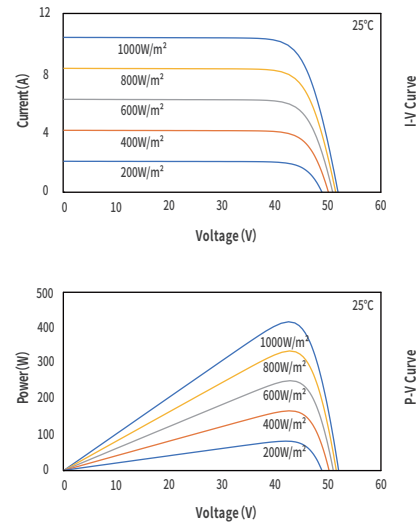
### Leading product and power warranty

**-2.50%** 1st-year Degradation **-0.50%** Annual Degradation **10** Years materials and workmanship warranty **25** Years linear power warranty

## Engineering Drawing (mm)



## Characteristic Curves(420W)



## Electrical Parameters (STC \*)

Nominal Max. Power(Pmax/W)	415	420	425	430
Open Circuit Voltage(Voc/V)	50.40	50.45	50.50	50.55
Short Circuit Current(Isc/A)	10.51	10.58	10.65	10.72
Operating Voltage(Vmp/V)	41.71	41.91	42.11	42.31
Operating Current(Imp/A)	9.95	10.03	10.10	10.17
Efficiency(%)	20.0	20.3	20.5	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

## Electrical Parameters (NMOT \*)

Nominal Max. Power(Pmax/W)	311.7	315.7	319.4	323.2
Open Circuit Voltage(Voc/V)	48.04	48.09	48.14	48.18
Short Circuit Current(Isc/A)	8.48	8.54	8.59	8.65
Operating Voltage(Vmp/V)	38.82	39.01	39.19	39.38
Operating Current(Imp/A)	8.03	8.09	8.15	8.21

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

## Temperature Coefficients

Short Circuit Current(Isc)	+0.048%/°C
Open Circuit Voltage(Voc)	-0.26%/°C
Nominal Max. Power(Pmax)	-0.340%/°C
NMOT	43 ± 2°C

## Mechanical Parameters

Cell Type	P Type
Module Size	1985 × 1165 × 4(9)mm
Module Thickness	4(9)mm
Module Weight	9.9(9.7)Kg
Output Cable	4mm <sup>2</sup> , cable length 250mm (can be customized)
Connector	MC4 compatible
Junction Box	IP68, 2 bypass diodes
Back Color	Black / White

## Operating Parameters

Max. System Voltage	DC1500V
Power Tolerance	0 ~ +5 W
Operating Temperature	-40°C ~ +85°C
Max. Fuse Rated Current	18A
Front Static Load	Snow load 5400Pa, Wind load 2400Pa

## Packing Data

Packing Type	20'GP	40'HQ
Piece/Pallet	60(56)	60(56)
Pallet/Container	8(8)	18(18)
Piece/Container	480(448)	1080(1008)