

Lightweight
High Density Module
Made in China
DAS-LOJP

410W~420W



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

420W

Maximum Module Efficiency

20.3%

Power Output Tolerance

0~+5W

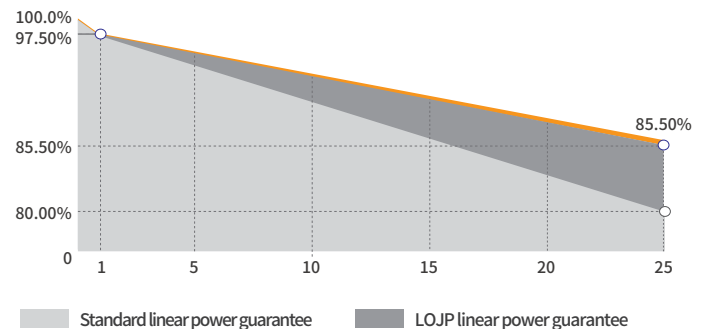
Product and Quality Certifications

IEC 61215, IEC 61730

ISO 9001: Quality Management System

ISO 14001: Environment Management System

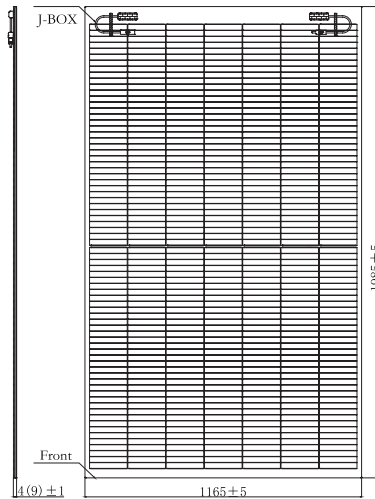
ISO 45001: Occupational Health and Safety Management System



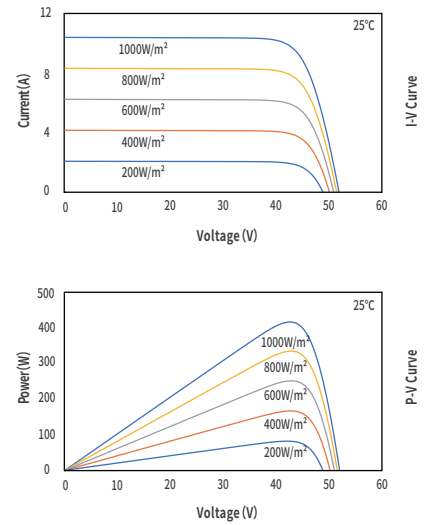
Leading product and power warranty

-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)	410	415	420
Open Circuit Voltage(Voc/V)	50.35	50.40	50.45
Short Circuit Current(Isc/A)	10.44	10.51	10.58
Operating Voltage(Vmp/V)	41.51	41.71	41.91
Operating Current(Imp/A)	9.88	9.95	10.03
Efficiency(%)	19.8	20.0	20.3

STC * : Irradiance = 1000 W/m², Cell Temperature = 25°C, AM = 1.5
Test condition is based on the front side

Mechanical Parameters

Cell Type	P Type
Module Size	1985×1165×4mm
Module Thickness	4mm
Module Weight	9.9Kg
Output Cable	4mm ² , cable length 300mm (can be customized)
Connector	See note
Junction Box	IP68, 2 bypass diodes
Back Color	Black / White

Connector*/Make: PV-ZH202B /Zhejiang Zhonghuan Sunter PV Technology Co., Ltd.

Electrical Parameters (NMOT *)

Nominal Max. Power(Pmax/W)	308.0	311.7	315.7
Open Circuit Voltage(Voc/V)	47.99	48.04	48.09
Short Circuit Current(Isc/A)	8.42	8.48	8.54
Operating Voltage(Vmp/V)	38.64	38.82	39.01
Operating Current(Imp/A)	7.97	8.03	8.09

NMOT *: Irradiance = 800 W/m², 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 Measurement Tolerance	±3%
Operating Temperature	-40°C ~ +85°C
Max. Fuse Rated Current	18A
Designed Mechanical Load	Positive 1600Pa, Negative 1600Pa
Fire Safety Class	Class C

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

Note: The PV modules are mounted using a silicon adhesive

Packing Data

Packing Type	20'GP	40'HQ
Piece/Pallet	60	60
Pallet/Container	8	18
Piece/Container	480	1080