# OYUNGSOLAR

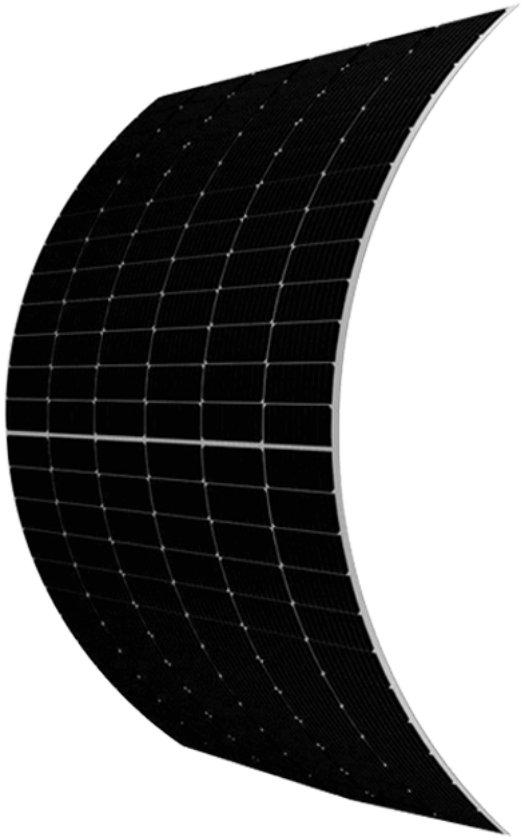
Flexible Series

## OSM72HPS 500-530 FL

500-530 Watt

**MONO PERC MODULE**

**P-type**



### Half-cut Cell Technology

New circuit design, lower internal current, lower Rs loss
Ga dopped wafer, attenuation less than 2% (1st year), less than 0.55% (Linear)

### Reduced Hot Spot Loss

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

### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.

### Easy to Install

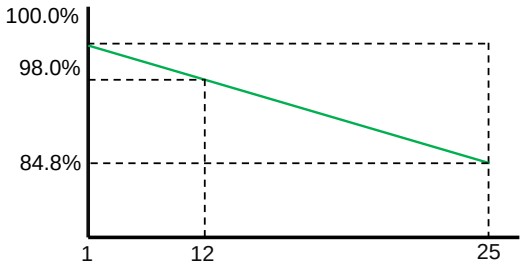
Lightweight, ultra-high flexibility, easy to install

### SMBB Technology

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

### Anti-PID Guarantee

Minimizes the chance of degradation caused by PID phenomena through optimization of cell production technology and material control.




**12**Year Product Warranty

**25**Year Linear Power Warranty

**2.0**% First-year Degradation

**0.61**% Annual Degradation Over 25 Years

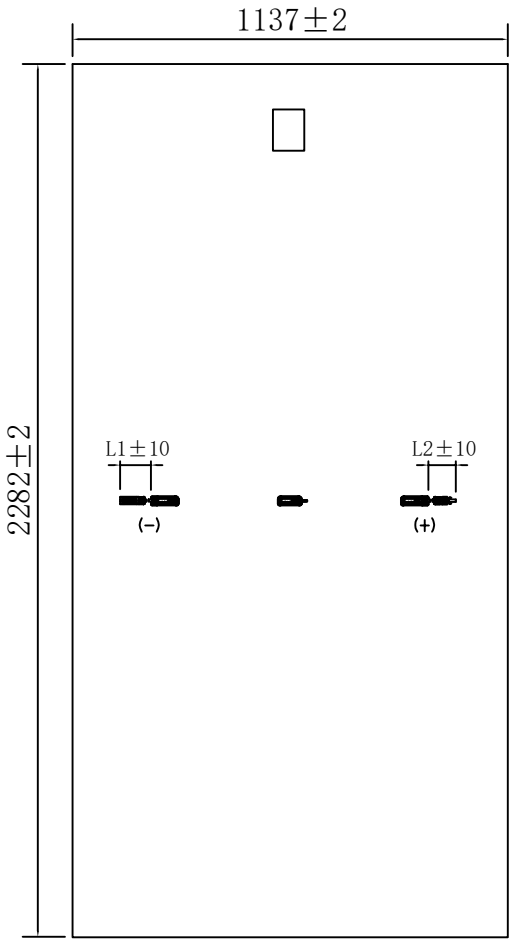
IEC61215 / IEC61730
IEC61701 / IEC62716 / IEC60068
ISO9001:2015: Quality Management System
ISO14001:2015: Environment Management System
ISO45001:2018: Occupational health and safety management systems

# OSM72HPS 500-530 FL

## Mechanical Parameters

| | |
|---|---|
| Cell Type | Monocrystalline Silicon |
| No. of cells | 144 (6×24) |
| Dimension | 2282×1137×3.3mm |
| Weight | 10.2kg |
| Front Glass | / |
| Backsheet | white |
| Frame | / |
| Junction Box | IP68 rated, 3diodes, MC4 compatible |
| Protection Class | Class II |
| IEC Fire Type | Class C |
| Output Cables | 4.0mm$^2$<br>300mm(+) / 300mm(-) or customized length |
| Packaging | 68pcs/pallet, 1360pcs/40'HC |

## Engineering Drawings

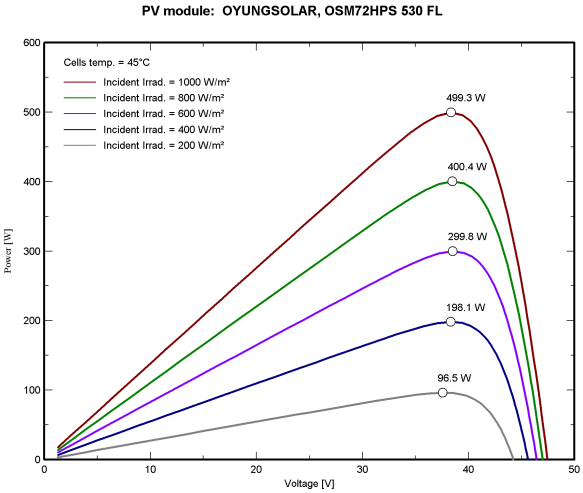



## Specifications (STC)

| | | | |
|---|---|---|---|
| Maximum Power (Pmax/W) | 520 | 525 | 530 |
| Maximum Power Voltage (Vmp/V) | 41.05 | 41.20 | 41.35 |
| Maximum Power Current (Imp/A) | 12.68 | 12.75 | 12.83 |
| Open-circuit Voltage (Voc/V) | 49.60 | 49.75 | 49.90 |
| Short-circuit Current (Isc/A) | 13.63 | 13.70 | 13.76 |
| Module Efficiency (STC/%) | 20.00 | 20.20 | 20.40 |
| Power Tolerance | | 0~+5W | |
| Temperature Coefficients of Pmax | | -0.35%/°C | |
| Temperature Coefficients of Voc | | -0.26%/°C | |
| Temperature Coefficients of Isc | | 0.047%/°C | |

STC: Irradiance 1000W/m$^2$, Cell Temperature 25°C, AM=1.5

## Electrical Performance




## Specifications (NOCT)

| | | | |
|---|---|---|---|
| Maximum Power (Pmax/W) | 387.0 | 391.0 | 394.0 |
| Maximum Power Voltage (Vmp/V) | 38.91 | 39.05 | 39.19 |
| Maximum Power Current (Imp/A) | 9.95 | 10.01 | 10.05 |
| Open-circuit Voltage (Voc/V) | 46.35 | 46.49 | 46.63 |
| Short-circuit Current (Isc/A) | 11.00 | 11.06 | 11.11 |

NOCT: Irradiance 800W/m$^2$, Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/

## Application Conditions

| | |
|---|---|
| Operating Temperature | -40°C ~ +85°C |
| Maximum System Voltage | 1500V DC (IEC) |
| Maximum Series Fuse Rating | 25A |
| Nominal Operating Cell Temperature - NOCT | 45±2°C |

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