

## PERC MONO CRYSTALLINE

### OPJ300-LV SMART SERIES

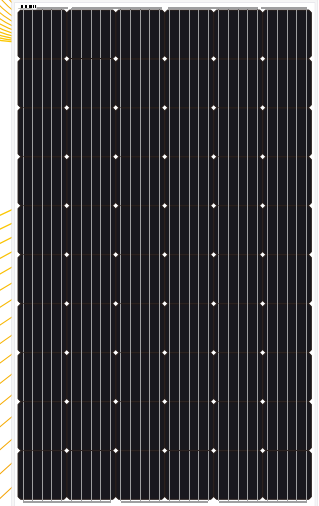
DM305-M156-60S

60 x 6" / 290 - 305W

Wattages:

290 / 295

300 / 305



**SolarEdge power optimizer OPJ300-LV**  
Module embedded solution



#### Safer Installations

Unique Pass-Thru connector for easy module flashing and field replacement



#### Power-Positive Tolerance

Guaranteed power output (0/+3%)



#### Up to 25% higher energy yield

Per-module Maximum Power Point Tracking (MPPT)  
Mitigates all types of modules mismatch-loss, from manufacturing tolerance to partial shading



#### High module conversion efficiency

Module efficiency up to 18.33% achieved through advanced cell technology and manufacturing capabilities

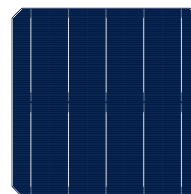
[www.dmegcsolar.com](http://www.dmegcsolar.com)

### OPJ300-LV Module Embedded Solution



DMEGC Smart Module comes with SolarEdge's Power Optimizer platform which enables a number of smart functions

### Excellent Electrical Performance Cells



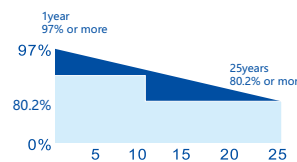
- PERC Mono Crystalline 156.75x156.75mm cells have been used in the modules with better performance in terms of parameters

### Superior Manufacturing-Quality Assurance



- All modules are manufactured using TQC & SPC quality control systems
- Advanced cell sorting to avoid electric mismatch
- 100% Test- before lamination & prior to shipment
- Comprehensive Safety and Reliability tests are performed

### Warranty



- 10 Years Manufacturers Warranty
- Linear Power Output Warranty, no less than 80.2% at year 25th

Certifications and standards:  
IEC 61215, IEC 61730 - Conformity to CE



## Electrical Specifications

\* STC irradiance of 1000W/m<sup>2</sup> , spectrum AM 1.5 and cell temperature of 25 ° C

| Module Type    | Pm(W) | Tolerance | Imp(A) | Vmp(V) | Isc(A) | Voc (V) | Module Efficiency |
|----------------|-------|-----------|--------|--------|--------|---------|-------------------|
| DM290-M156-60S | 290   | 0/+3%     | 9.01   | 32.19  | 9.49   | 39.48   | 17.72%            |
| DM295-M156-60S | 295   | 0/+3%     | 9.11   | 32.40  | 9.59   | 39.64   | 18.02%            |
| DM300-M156-60S | 300   | 0/+3%     | 9.21   | 32.61  | 9.69   | 39.80   | 18.33%            |
| DM305-M156-60S | 305   | 0/+3%     | 9.31   | 32.82  | 9.79   | 40.06   | 18.63%            |

## String Lengths (computed automatically by SolarEdge Site Designer) EU and APAC

| Module Power (W)                                      |        | 290     | 295     | 300     | 305     |
|---|--------|---------|---------|---------|---------|
| Minimum / Maximum string size with SolarEdge inverter | 1ph    | 8 / 18  | 8 / 17  | 8 / 17  | 8 / 17  |
|   | 3ph    | 16 / 38 | 16 / 38 | 16 / 37 | 16 / 36 |
|   | 3ph-MV | 18 / 43 | 18 / 43 | 18 / 42 | 18 / 41 |

## Output Voltages and Currents

|   |        |     |
|---|--------|-----|
| Operating Output Voltage when connected to SolarEdge Inverter   | 5 - 60 | VDC |
| Maximum Output Current when connected to SolarEdge Inverter   | 15     | ADC |
| Output in Standby mode with SolarEdge Inverter or with SMI and Non-SolarEdge Inverter (when disconnected from inverter or inverter off) | 1      | VDC |

## Maximum Ratings

|                       |                                  |                         |                               |
|-----------------------|----------------------------------|-------------------------|-------------------------------|
| Operating Temperature | -40°C to +85°C                   | Maximum System Voltage  | 600V DC (UL) / 1000V DC (IEC) |
| Maximum Load Capacity | Snow - 5400 Pa<br>Wind - 2400 Pa | Busbars                 | 5                             |
|                       |                                  | Maximum Cell Efficiency | 21.9%                         |

## Packaging

|                            |                      |
|----------------------------|----------------------|
| Module Dimensions          | 1650 × 992 × 40 mm   |
| Weight                     | 19.5 kg              |
| Pallet Dimensions          | 1700 × 1130 × 1130mm |
| Container                  | 40' HQ               |
| Pieces per Pallet          | 27                   |
| Pallets per Container      | 28                   |
| Pieces per Container       | 756                  |
| Gross Weight per Pallet    | 565 kg               |
| Gross Weight per Container | 15,820 kg            |

## Mechanical Data

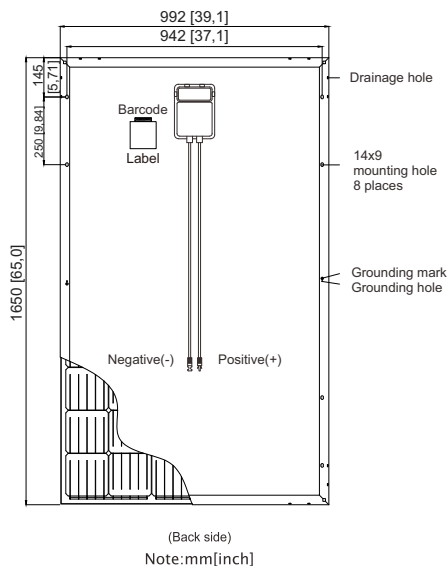
|                     |                                |
|---------------------|--------------------------------|
| Cell Type           | DMPD5B157- 210                 |
| Cell Arrangement    | 60 (6 x10)                     |
| Module Structure    | Glass / EVA / Backsheet(white) |
| Glass Thickness     | 3.2 mm                         |
| Application Class   | Class A at IEC 61730           |
| Junction Box Rating | IP 67                          |
| Cable               | 1000mm/6mm <sup>2</sup>        |
| Connector Type      | MC4                            |
| Fire Rating Class   | Class C                        |

## Temperature Characteristics

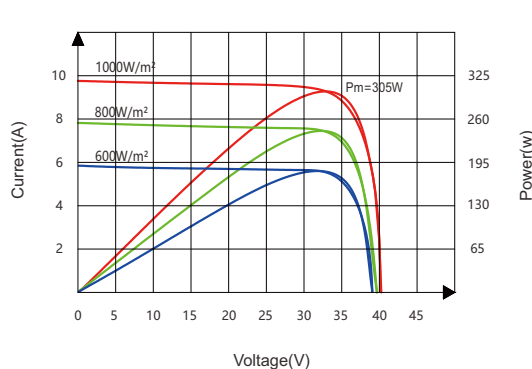
|                                 |              |
|---------------------------------|--------------|
| (NMOT)                          | 45°C ± 2°C   |
| Temperature Coefficient of Isc  | +0.060% / °C |
| Temperature Coefficient of Voc  | -0.300% / °C |
| Temperature Coefficient of Pmax | -0.390% / °C |

## Junction Box Standard Compliance

|                        |   |
|------------------------|---|
| PV Junction Box Safety | IEC62109-1 ( class II safety, TUV-SUD )<br>UL1741 (TUV-Rheinland & CSA) |
| Fire Safety            | VDE-AR-E 2100-712:2013-05   |
| PV Junction Box        | EN50548(TUV-SUD),UL3730   |



Current-Voltage&Power-Voltage Curve(305W)



Temperature Dependence of Isc, Voc, Pmax

