



DMEGC Quality.Performance. Value.

MONO CRYSTALLINE MODULE

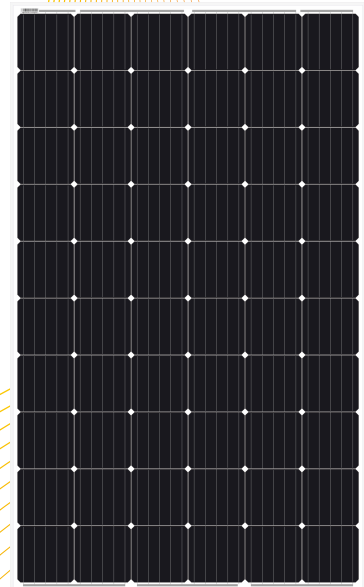
OPJ300-LV SMART SERIES

DM290-M156-60S

60 x 6" /280 - 290W

Wattages:

280 / 285 / 290



SolarEdge power optimizer OPJ300-LV
Module embedded solution



Safer Installations

Unique Pass-Thru connector for easy module pashing and yield 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 17.72% achieved through advanced cell technology and manufacturing capabilities

www.dmegcsolar.com

Superior Manufacturing-Quality Assurance



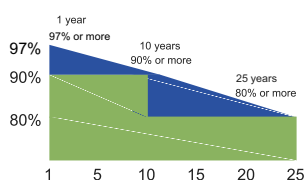
- All modules are manufactured using TQC & SPC quality control systems
- Advanced cell sorting to avoid electric mismatch
- 100% EL Test-before lamination & prior to shipment
- Comprehensive Safety and Reliability tests are performed

OPJ300-LV Module Embedded Solution



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

Warranty



- 10 Years Manufacturers Warranty
- 10 Years Warranty, 90% power output
- 25 Years Warranty, 80% power output

Visible Quality



- Durable, high-quality
- Rigid construction: 5400Pa & 2400Pa rated assembly



Electrical Specifications

* STC irradiance of 1000W/m² 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 |
|----------------|-------|-----------|--------|--------|--------|---------|-------------------|
| DM280-M156-60S | 280 | 0/+3% | 8.87 | 31.60 | 9.32 | 38.89 | 17.11% |
| DM285-M156-60S | 285 | 0/+3% | 8.94 | 31.90 | 9.39 | 39.10 | 17.41% |
| DM290-M156-60S | 290 | 0/+3% | 9.02 | 32.20 | 9.46 | 39.31 | 17.72% |

Mechanical Data

| | |
|---------------------|-------------------------------|
| Cell Type | DMTD5B157-210 |
| Cell Arrangement | 60(6x10) |
| Module Structure | Glass/ EVA / Backsheet(white) |
| Glass Thickness | 3.2mm |
| Application Class | Class A at IEC 61730 |
| Junction Box Rating | IP 67 |
| Cables | 1000mm/4mm ² |
| Connector Type | MC4 |
| Fire Rating Class | Class C |

Maximum Ratings

| | |
|----------------------------|-----------------------------|
| Operating Temperature | -40°C to +85°C |
| Maximum Load Capacity | Snow 5400Pa / Wind 2400Pa |
| Maximum System Voltage | 600V DC(UL) / 1000V DC(IEC) |
| Maximum Series Fuse Rating | 15A |
| Number of Diodes | 3 |

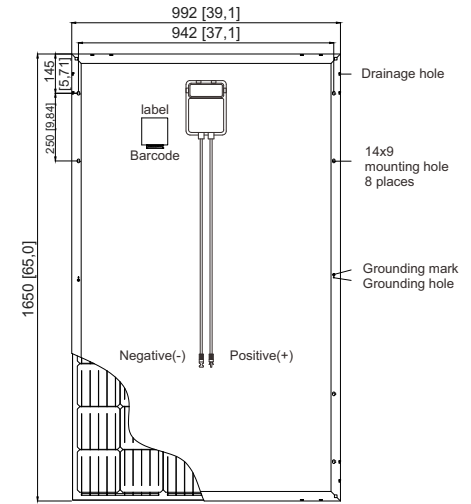
Packaging

* frame sizes (35mm/40mm) available upon request

| | | |
|----------------------------|----------------|----------------|
| Module Dimensions | 1650x992x40mm | 1650x992x35mm |
| Weight | 19kg | 18.2kg |
| Pallet Dimensions | 1700x1130x1130 | 1700x1130x1130 |
| Container | 40' HQ | 40' HQ |
| Pieces per Pallet | 26 | 29 |
| Pallets per Container | 28 | 28 |
| Pieces per Container | 728 | 812 |
| Gross Weight per Pallet | 535kg | 570kg |
| Gross Weight per Container | 14,980kg | 15,960kg |

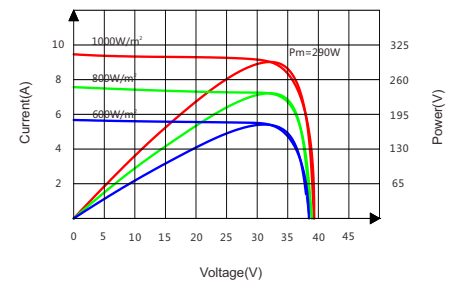
Temperature Characteristics

| | |
|---|------------|
| Nominal Operating Cell Temperature (NOCT) | 45°C±2°C |
| Temperature Coefficient of Isc | +0.043%/°C |
| Temperature Coefficient of Voc | -0.320%/°C |
| Temperature Coefficient of Pmax | -0.420%/°C |



(Back side)
Note:mm[inch]

Current-Voltage&Power-Voltage Curve(290W)



Temperature Dependence of Isc, Voc, Pmax

