

## PERC MONO CRYSTALLINE

### OPJ300-LV SMART SERIES

DM310-M156-60BKS

295 / 300 / 305 / 310



**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

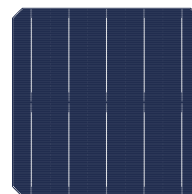
[www.dmegcsolar.com](http://www.dmegcsolar.com)

### 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



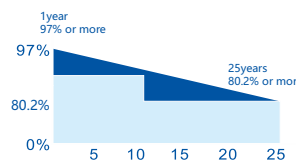
- PERC Mono Crystalline 156.75x156.75mm cells have been used in the modules with better performance in terms of parameters

### Superior Manufacturing-Quality Assurance



- All modules are manufactured using TQC & SPC quality control systems
- Advanced cell sorting to avoid electric mismatch
- 100% EL 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
DM295-M156-60BKS	295	0/+3%	8.94	33.04	9.34	40.74	18.02%
DM300-M156-60BKS	300	0/+3%	9.05	33.19	9.44	40.90	18.33%
DM305-M156-60BKS	305	0/+3%	9.15	33.38	9.54	41.06	18.63%
DM310-M156-60BKS	310	0/+3%	9.25	33.57	9.64	41.23	18.94%

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

Module Power (W)		295	300	305	310
Minimum / Maximum string size with SolarEdge inverter	1ph	8 / 17	8 / 17	8 / 17	8 / 16
	3ph	16 / 38	16 / 37	16 / 36	16 / 36
	3ph-MV	18 / 43	18 / 42	18 / 41	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 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**

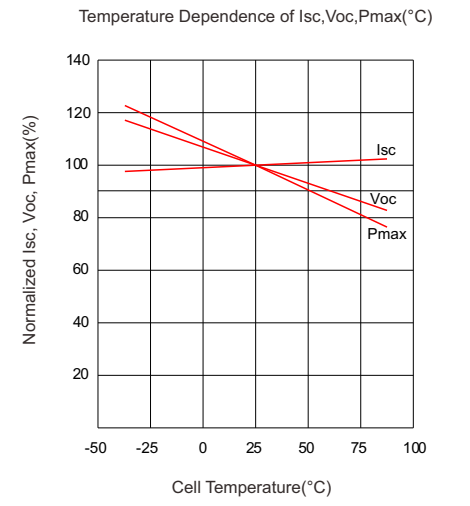
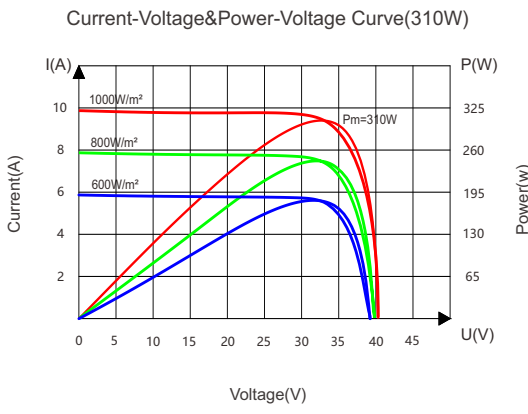
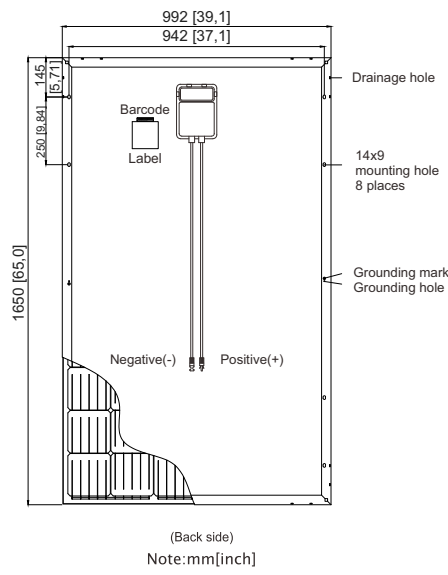
Cell Type	DMPD5B157- 210
Cell Arrangement	60 (6 x10)
Module Structure	Glass / EVA / Backsheet (black / inside black)
Glass Thickness	3.2 mm
Application Class	Class A at IEC 61730
Junction Box Rating	IP 67
Cable	1000mm/6mm <sup>2</sup>
Connector Type	MC4
Fire Rating Class	Class C

**Temperature Characteristics**

(NMOT)	42°C±3°C
Temperature Coefficient of Isc	+0.038%/°C
Temperature Coefficient of Voc	-0.270%/°C
Temperature Coefficient of Pmax	-0.365%/°C

**Junction Box Standard Compliance**

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



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