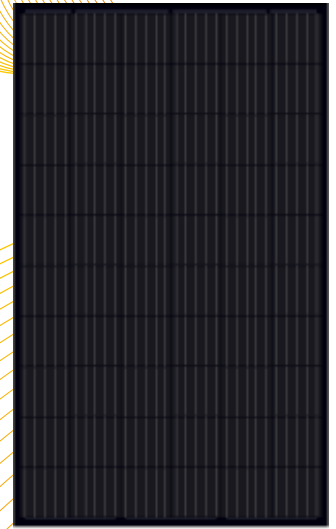


# PERC MONO CRYSTALLINE

## OPJ300-LV SMART SERIES

DM320-M159-60BKS

305 / 310 / 315 / 320



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



### Safer Installations

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



### PID Free

Excellent PID resistance according to IEC TS 62804-1



### 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 19.18% achieved through advanced cell technology and manufacturing capabilities

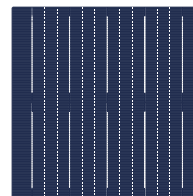
[www.dmegcsolar.com](http://www.dmegcsolar.com)

## 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



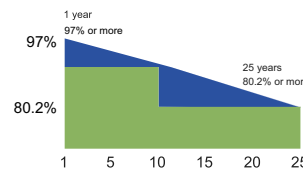
- PERC Mono Crystalline 158.75x158.75mm cells have been used in the modules with better performance in terms of parameters

## 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



## 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
DM305-M159-60BKS	305	0/+3%	9.24	33.04	9.64	40.74	18.28%
DM310-M159-60BKS	310	0/+3%	9.34	33.22	9.74	40.90	18.58%
DM315-M159-60BKS	315	0/+3%	9.44	33.40	9.84	41.06	18.88%
DM320-M159-60BKS	320	0/+3%	9.54	33.57	9.95	41.23	19.18%

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

Module Power (W)		305	310	315	320
Minimum / Maximum string size with SolarEdge inverter	1ph	8 / 17	8 / 16	8 / 16	8 / 16
	3ph	16 / 36	16 / 36	16 / 35	16 / 35
	3ph-MV	18 / 41	18 / 41	18 / 40	18 / 39

## 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	22.2%

## Packaging

Module Dimensions	1665 × 1002 × 40 mm
Weight	20.5 kg
Pallet Dimensions	1715 × 1130 × 1140mm
Container	40' HQ
Pieces per Pallet	27
Pallets per Container	28
Pieces per Container	756
Gross Weight per Pallet	595 kg
Gross Weight per Container	16660 kg

## Mechanical Data

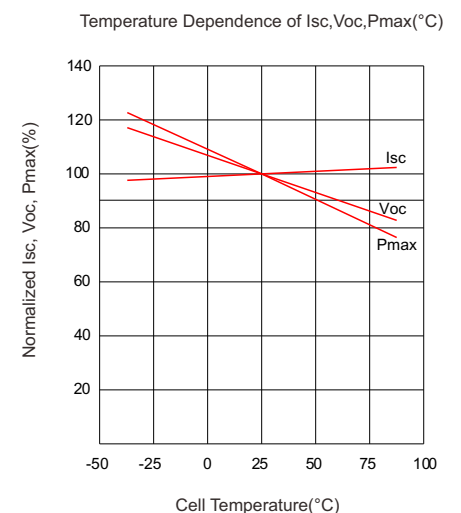
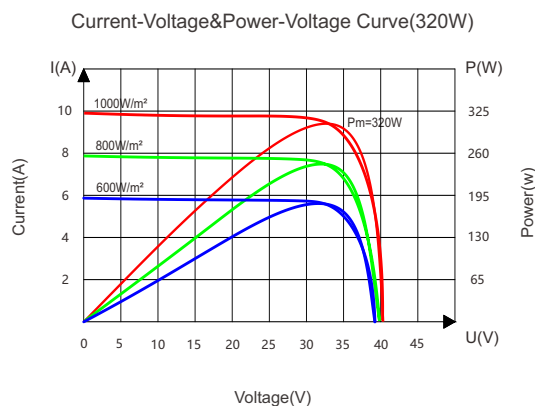
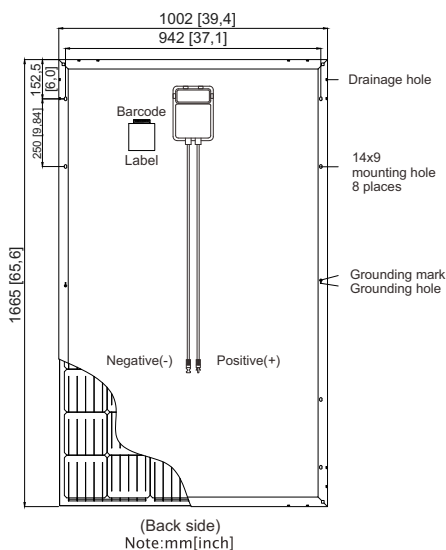
Cell Type	DMPD5B159-223
Cell Arrangement	60 (6 × 10)
Module Structure	Glass/ EVA / Backsheet(black/inside black )
Glass Thickness	3.2 mm
Application Class	Class A at IEC 61730
Junction Box Rating	IP 67
Cable	1000mm/6mm <sup>2</sup>
Connector Type	MC4
Fire Rating Class	C

## Temperature Characteristics

Nominal Module Operating Temperature	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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