

PERC MONO CRYSTALLINE

OPJ300-LV SMART SERIES

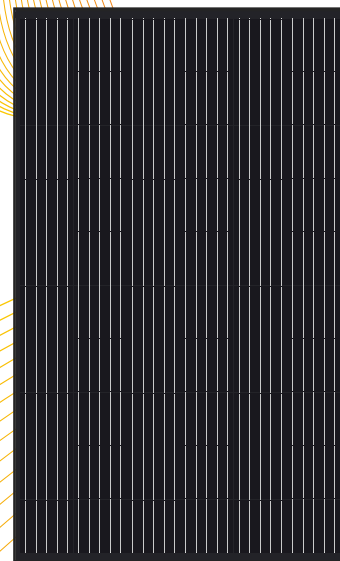
DM320-M159-60BKS

60 x 6" / 305 - 320W

Wattages:

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



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 19.18% achieved through advanced cell technology and manufacturing capabilities

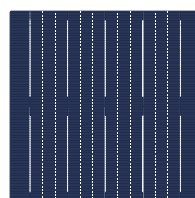
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OPJ300-LV Module Embedded Solution



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

Excellent Electrical Performance Cells



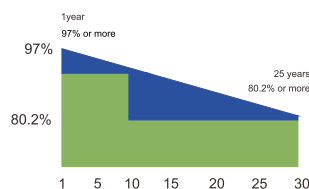
- PERC Mono Crystalline
158.75x158.75mm cells have been used in the modules with better performance in terms of parameters

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/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
DM305-M159-60BKS	305	0/+3%	9.78	33.21	9.19	40.48	18.28%
DM310-M159-60BKS	310	0/+3%	9.85	33.40	9.29	40.62	18.58%
DM315-M159-60BKS	315	0/+3%	9.92	33.61	9.38	40.76	18.88%
DM320-M159-60BKS	320	0/+3%	9.99	33.81	9.47	40.90	19.18%
String Lengths (computed automatically by SolarEdge Site Designer) EU and APAC							
Module Power (W)		305		310		315	
Minimum / Maximum string size with SolarEdge inverter	1ph	8 / 17		8 / 16		8 / 16	
	3ph	16 / 36		16 / 36		16 / 35	
	3ph-MV	18 / 41		18 / 41		18 / 40	
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				Mechanical Data			
Module Dimensions		1665 × 1002 × 40 mm		Cell Type		DMPD5B159-223	
Weight		20.5 kg		Cell Arrangement		60 (6 x10)	
Pallet Dimensions		1715 × 1130 × 1140mm		Module Structure		Glass / EVA / Backsheet (Black)	
Container		40' HQ		Glass Thickness		3.2 mm	
Pieces per Pallet		27		Application Class		Class A at IEC 61730	
Pallets per Container		26		Junction Box Rating		IP 67	
Pieces per Container		702		Cable		1000mm/6mm²	
Gross Weight per Pallet		610 kg		Connector Type		MC4	
Gross Weight per Container		15,860 kg		Fire Rating Class		C	
Temperature Characteristics				Junction Box Standard Compliance			
Nominal Module Operating Temperature		45°C ± 2°C		PV Junction Box Safety		IEC62109-1 (class II safety, TUV-SUD) UL1741 (TUV-Rheinland & CSA)	
Temperature Coefficient of Isc		+0.060% / °C					
Temperature Coefficient of Voc		-0.300% / °C		Fire Safety		VDE-AR-E 2100-712:2013-05	
Temperature Coefficient of Pmax		-0.390% / °C		PV Junction Box		EN50548(TUV-SUD),UL3730	

