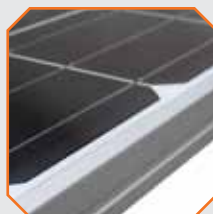


FIRST Q

SLA 260/265/270 M



The First Q 60 M module series is a result of the experience of the Silfab technical team, specialized in the entire photovoltaic value chain, with modules produced and operating for over 30 years. Many field experiences attest a typical expected lifetime of Silfab modules of over 40 years.

Quality and characteristics

Module produced with 60 high efficiency and high quality monocrystalline solar cells, with a nominal power of up to 270 Wp, with 3 busbars to reduce ohmic losses of the module and of the PV system.

Enhanced Energy production at low wavelength guaranteed by the use of selective emitter solar cells.

Narrow tolerance of nominal power $\pm 1\%$, to minimize mismatch losses in the strings and achieve the maximum electrical performance of the PV system.

Use of reference modules calibrated by Fraunhofer ISE. Quality, reliability and stability of the electrical

performance over the years guaranteed by strict controls during each production step and by using only high quality raw materials.

Reduced weight and overall dimensions maintaining high mechanical characteristics (certified for hail impact and for wind and snow load up to 5.4kN/m^2).

Electrical Specifications - Standard Test Conditions		SLA 260 M	SLA 265 M	SLA 270 M
Module Power (Pmax)	Wp	260	265	270
Open circuit voltage (Voc)	V	37.90	38.00	38.10
Short circuit current (Isc)	A	9.07	9.21	9.35
Maximum power voltage (Vpmax)	V	30.42	30.50	30.58
Maximum power current (Ipmax)	A	8.55	8.69	8.83
Module efficiency	%	15.9	16.2	16.5
Maximum system voltage (VDC)	V	600	600	600
Power tolerance	%	± 1	± 1	± 1

Measurement conditions: STC 1000 W/m² - AM 1,5 - Temperature 25 °C • Measurement uncertainty ≤ 3% - Sun simulator calibration with modules calibrated by Fraunhofer Institute.

Electrical specifications at NOCT - Nominal Operating Cell Temperature		SLA 260 M	SLA 265 M	SLA 270 M
Module Power (Pmax)	Wp	187	191	195
Open circuit voltage (Voc)	V	34.60	34.70	34.80
Short circuit current (Isc)	A	7.25	7.37	7.5
Maximum power voltage (Vpmax)	V	28	28.3	28.6
Maximum power current (Ipmax)	A	6.68	6.75	6.82
Maximum system voltage (VDC)	V	600	600	600

Measurement conditions: NOCT 800 W/m² - Ambient Temperature 20 °C - Cells Temperature 45 °C - Wind speed 1 m/s - AM 1.5

Temperature coefficients		SLA 260 M	SLA 265 M	SLA 270 M
Temperature Coefficient Isc	%/K	0.03	0.03	0.03
Temperature Coefficient Voc	%/K	-0.35	-0.35	-0.35
Temperature Coefficient Pmax	%/K	-0.46	-0.46	-0.46
NOCT	°C	45	45	45
Operating temperature	°C	-40/+85	-40/+85	-40/+85
Maximum surface load (wind / snow)	N/m ²	5400	5400	5400
Hail impact resistance		ø 25 mm at 83 km/h	ø 25 mm at 83 km/h	ø 25 mm at 83 km/h

Mechanical properties and components		First Q SLA 260/265/270 M		
Cells		60 - Si mono - 3 busbar - 156 x 156 mm		
Dimensions (H x L x P; ± 1mm)	mm	1650 x 990 x 38		
Module weight (± 1 kg)	kg	19		
Glass		3.2 mm high transmittance, tempered, low iron content, antireflective		
Encapsulant		EVA		
Backsheet		Multilayer polyester-based		
Frame		Anodized Al 6060 T5, 15 µm		
By-pass diodes		3 diodes SL1515		
Junction box, cables and connections		Tyco, 2 x 1000 mm ø 5.7 mm (4 mm ²) - connectors: Tyco quick plug-in or MC4		

Warranties		First Q SLA 260/265/270 M		
Module warranty		12 years		
Guaranteed power		≥ 97 % end of 1° year ≥ 90 % end of 12° year ≥ 82% end of 25° year		

Certifications		First Q SLA 260/265/270 M		
Product		UL 1703 - CEC listed		
Factory		Product traceability ISO 9001:2008		



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