

The SLA PV 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 multicrystalline solar cells, with a nominal power of up to 245Wp, 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;

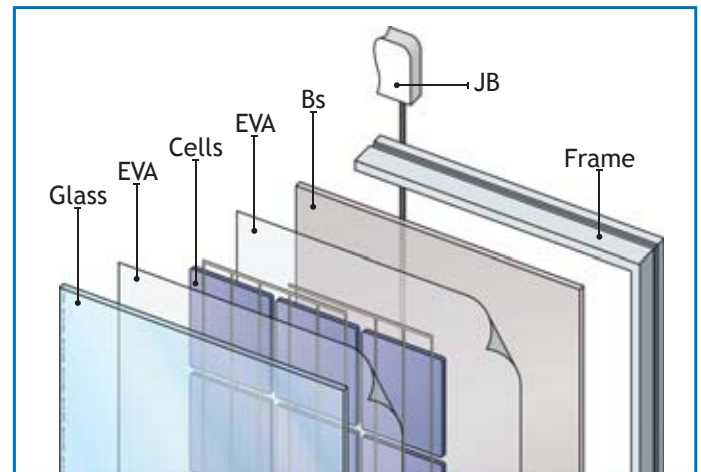
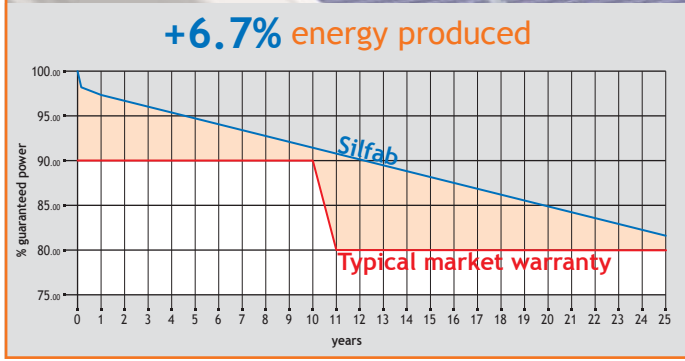
Only positive tolerance of nominal power, 0/+5 Watt, to minimize mismatch losses in the strings and achieve the maximum electrical performance of the PV system;

+6.7% energy production in 25 years compared to the standard available on the market, thanks to the new linear warranty;

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/m²);



Frame with practical and compact structure, provided with:

- grounding holes
- mounting holes for a rapid and safe installation
- drainage holes to avoid water stagnation in the aluminum channels and subsequent ice formation

CE **Guaranteed power**
 97.5% at the end of the first year
 ≥ 90% at the end of the 12th year
 ≥ 82% at the end of the 25th year
 0.7% maximum annual decrease (from 2nd to 25th year)

IEC

Warranties and product certifications
 10 years product warranty
 IEC 61215 Ed.2 e IEC 61730
 UL1703 - pending
 Production unit certified ISO9001:2008
 Product traceability


TÜV INTERCERT
SP

Research, innovation and continuous improvement thanks to the close cooperation with the main raw materials suppliers and the internal Silfab R&D team.

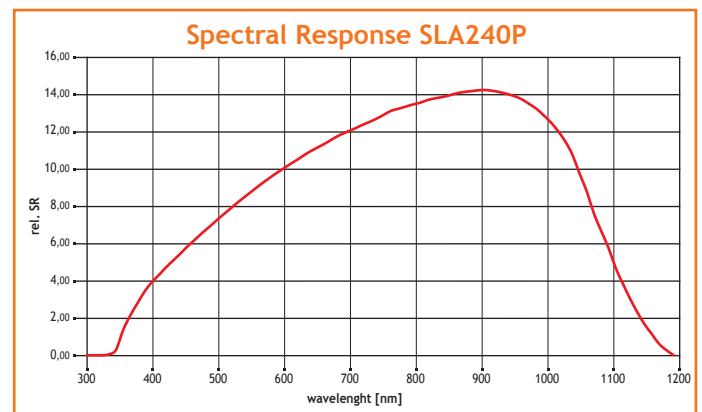
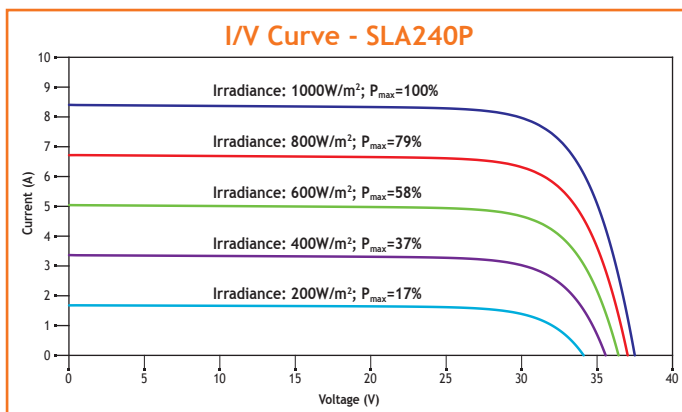
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Electrical specifications

Measurement conditions		STC (1000 W/m ² - AM 1.5 - 25 °C)					NOCT (800 W/m ²)*				
Module type		SLA225P	SLA230P	SLA235P	SLA240P	SLA245P	SLA225P	SLA230P	SLA235P	SLA240P	SLA245P
Module power (Pmax)	Wp	225	230	235	240	245	166	170	173	177	181
Power tolerance	W	0/+5					0/+5				
Open circuit voltage (Voc)	V	36.50	36.85	37.20	37.50	37.80	34.21	34.53	34.88	35.17	35.38
Short circuit current (Isc)	A	8.20	8.25	8.30	8.40	8.50	6.62	6.66	6.72	6.78	6.87
Maximum power voltage (Vpmax)	V	29.40	29.80	30.10	30.40	30.60	27.28	27.64	27.95	28.18	28.41
Maximum power current (Ipmax)	A	7.66	7.72	7.81	7.90	8.01	6.09	6.14	6.21	6.29	6.37
Module efficiency	%	13.8%	14.1%	14.4%	14.7%	15.0%	12.7%	13.0%	13.3%	13.6%	13.8%
Maximum system voltage	VDC	1.000					1.000				

Calibration of sun simulator with modules calibrated by  **Fraunhofer ISE**

* NOCT (800 W/m²; T_{amb} = 20°C; T_{cells} = 41°C; wind speed = 1 m/s. AM 1.5)

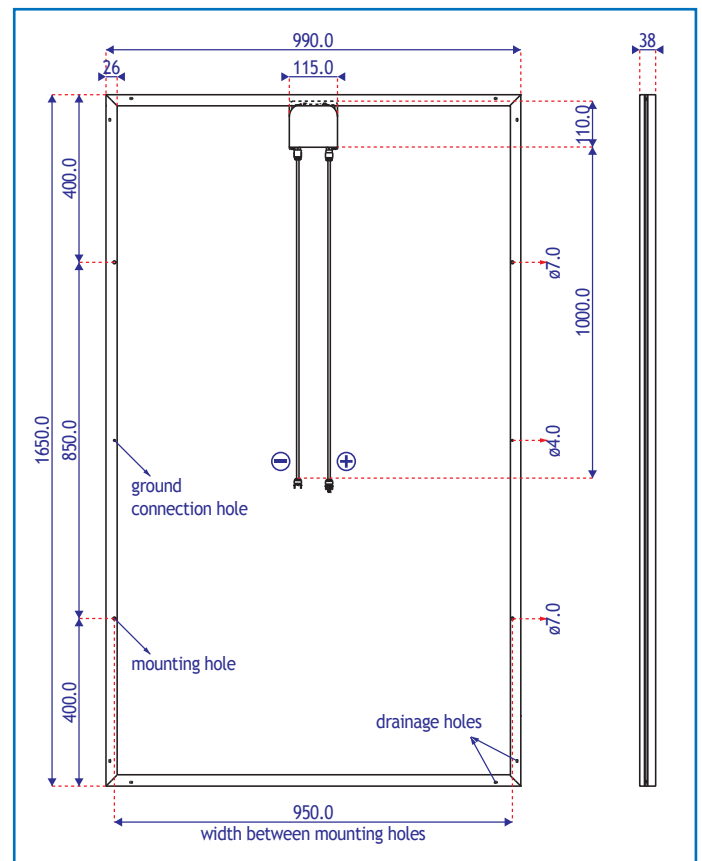


Operational specifications

Temperature coefficient Isc(α)	0.06%/K
Temperature coefficient Voc (β)	-0.31 %/K
Temperature coefficient Pmax (γ)	-0.41 %/K
NOCT (Nominal Operating Cell Temperature)	41 °C
Operating temperature	from -40 °C to +85 °C
Maximum surface load (wind/ snow)	5.4kN/m ²
Long side certified mounting interaxis	850mm
Hail impact resistance	Ø 25mm a 83km/h

Mechanical properties and components

Cell type	Multicrystalline silicon
Cell technology	3 bus bars, selective emitter
Cell dimensions	156 x 156 mm
Cell number	60 (6 x 10)
Module length	1650 +/-1mm
Module width	990 +/-1mm
Module thickness	38mm
Module weight	19kg
Front glass	3.2mm; high transmittance, tempered, low iron content, antireflective
Encapsulant	2 EVA sheets (ethyl-vinyl-acetate)
Backsheet	Multilayer, polyester-based
Frame	Anodized Al, 6060 T5, 15µm
Junction box and connectors	Tycos, quick plug-in connectors (max. dim: Ø 18mm)
By-pass diodes	3 diodes SL1515; nominal current 13A
Connection cables, cross-section	2 x 1000mm (4mm ²) - Ø5.7mm



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