

LA170-24S High-efficiency PV Module

Technology

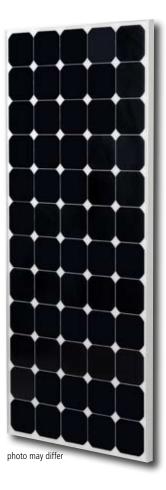
The LORENTZ LA-Series of PV modules with monocrystalline silicon solar cells offer a high conversion efficiency due to the unique backcontact technology.

The low voltage-temperature coefficient guarantees a superior battery charging performance, even at high operating temperatures.

Exceptional low-light performance and broad spectral response further enhance energy delivery in all weather conditions, year round.

Applications

- water pumping
- water purification systems
- remote village lighting
- solar home systems
- street and camp lights
- traffic signals
- medical facilities in remote areas
- microwave/radio repeater stations
- battery charging



Features

- aerospace style cell interconnects with in-plane strain relief
- advanced EVA encapsulation system with multilayer backsheet for long-term package durabilit
- bypass diodes to minimize the power drop caused by shade
- high reliability

Warranty

- Warranty: 2 years
- Performance guarantee: up to 10 years (90% power output) up to 20 years (80% power output)

Details according to warranty issued by LORENTZ

Standards

LA170-24S meets the requirements for IEC and CE.



Specifications

Electrical Data

Peak power	Pmax	[Wp]	170
Tolerance		[%]	+ 10/-5
Max. power current	Imp	[A]	5.2
Max. power voltage	Vmp	[V]	32.7
Short circuit current	lsc	[A]	5.8
Open circuit voltage	Voc	[V]	39.2
Temperature co-efficient for Pmax		[%/°C]	- 0.38
Temperature co-efficient for Voc		[mV/°C]	- 110
Temperature co-efficient for Isc		[mA/°C]	5.3
Max. system voltage		[V]	750
All technical data at standard test conditio	in:		

AM = 1.5, E = 1,000 W/m², cell temperature: 25 °C

Cells

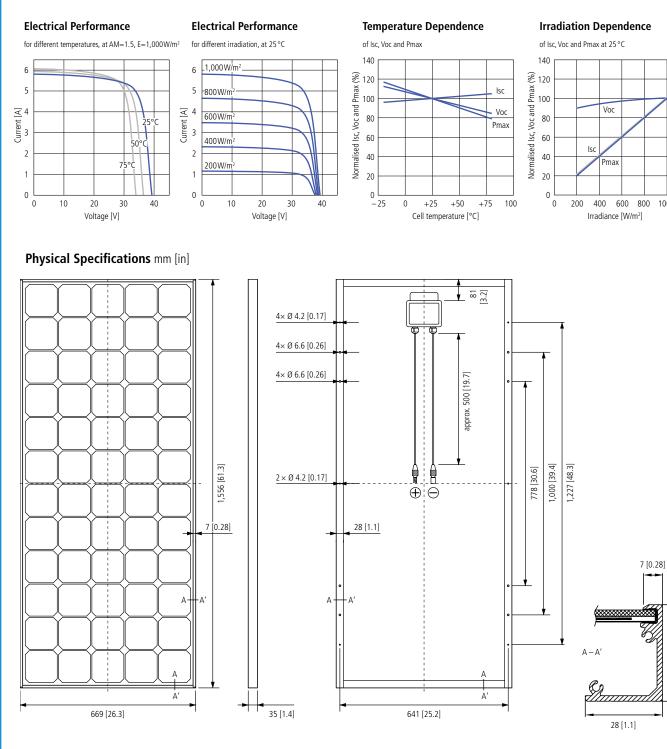
Number of cells in series60*Number of cells in parallel1Cell technologymonocrystallineCell shaperectangular

* Due to the back-contact cell technology only 60 cells are required to yield the same Vmp voltage as traditional SI products with 72 cells.

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Electrical Performance



Weight	[kg]	16.0 kg	
Dimension	[mm]	669 × 1,556 × 35	
Cable	approx. 500 mm / 19.7 in, 4 mm ² / AWG12		
Connectors		ZJRH Cixi Renhe 05-1	

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1000 1,200