

# LC250-P60

## High-efficiency PV Module

### Features

- high energy yields ensured by high conversion efficiency
- sturdy, clear-anodized aluminum frame with pre-drilled holes for quick installation
- advanced EVA encapsulation with triple-layer backsheet, meets the most stringent safety requirements for high-voltage operation
- pre-wired junction box equipped with connectors "plug'n'play"
- reliable bypass diodes to prevent overheating (hot spot effect) and to minimise power loss by shading
- manufactured in ISO 9001:2000-certified factory



photo may differ from actual product

### 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

LC250-P60 is certified according to IEC 61215 and 61730 by TÜV Rheinland and meets the requirements for CE.



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic Inspection

www.tuv.com  
ID 0000046231



### Specifications

#### Electrical Data

Peak power	Pmax	[Wp]	250
Tolerance		[%]	+ 5/0
Max. power current	Imp	[A]	8.23
Max. power voltage	Vmp	[V]	30.4
Short circuit current	Isc	[A]	8.81
Open circuit voltage	Voc	[V]	37.6
Temperature co-efficient for Pmax		[%/°C]	-0.42
Temperature co-efficient for Voc		[%/°C]	-0.34
Temperature co-efficient for Isc		[%/°C]	0.06
Max. system voltage		[VDC]	1,000
Module efficiency		[%]	15.27
Practical module efficiency		[%]	17.12

All technical data at standard test condition:  
AM = 1.5, E = 1,000W/m<sup>2</sup>, cell temperature: 25 °C

#### Cells

Number of cells in series	60
Number of cells in parallel	1
Cell technology	polycrystalline
Cell shape	rectangular

To find out more visit [www.lorentz.de](http://www.lorentz.de)

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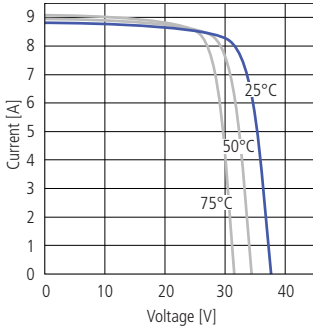
Errors excepted and possible alterations without prior notice. Pictures may differ from actual products depending on local market requirements and regulations. A pump system consists of a controller, motor and pump end. Multiple pumps/pump ends are shown to represent the wide range of pumps (over 70) that LORENTZ has.

**Sun. Water. Life.**

## Electrical Performance

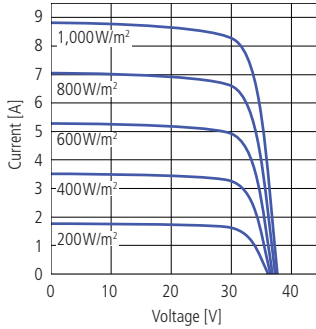
### Electrical Performance

for different temperatures, at AM=1.5, E=1,000W/m<sup>2</sup>



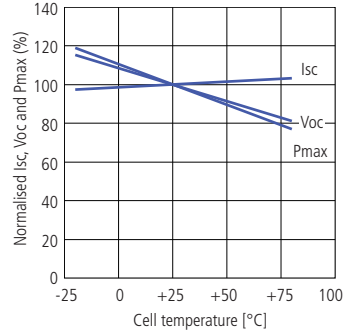
### Electrical Performance

for different irradiation, at 25°C



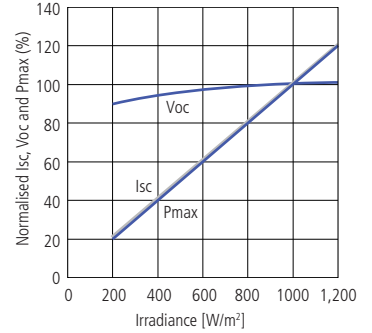
### Temperature Dependence

of I<sub>sc</sub>, V<sub>oc</sub> and P<sub>max</sub>

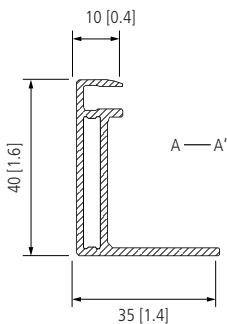
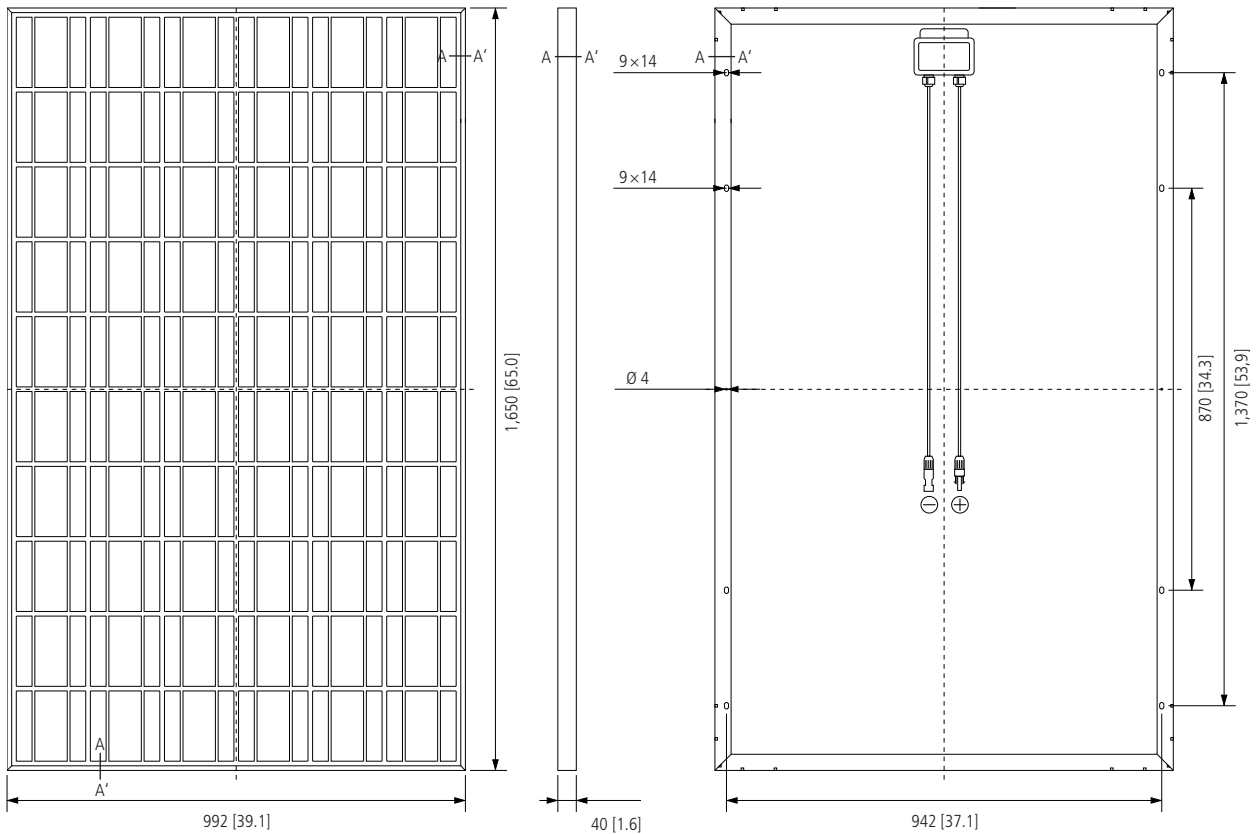


### Irradiation Dependence

of I<sub>sc</sub>, V<sub>oc</sub> and P<sub>max</sub> at 25°C



## Physical Specifications mm



Weight	[kg]	18.5
Dimension	[mm]	1,650 × 992 × 40
Strength	[N/m <sup>2</sup> ]	2,400
Cable		approx. 900 mm, 4 mm <sup>2</sup>
Connectors		MC4 PV-KBT4/6II-UR / PV-KST4/6II-UR

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