

# LC100-M36

## 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

LC100-M36 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 0000041005



### Specifications

#### Electrical Data

|                                   |      |        |       |
|-----------------------------------|------|--------|-------|
| Peak power                        | Pmax | [Wp]   | 100   |
| Tolerance                         |      | [%]    | + 5/0 |
| Max. power current                | Imp  | [A]    | 5.35  |
| Max. power voltage                | Vmp  | [V]    | 18.7  |
| Short circuit current             | Isc  | [A]    | 5.72  |
| Open circuit voltage              | Voc  | [V]    | 23.0  |
| Temperature co-efficient for Pmax |      | [%/°C] | -0.4  |
| Temperature co-efficient for Voc  |      | [%/°C] | -0.33 |
| Temperature co-efficient for Isc  |      | [%/°C] | 0.05  |
| Max. system voltage               |      | [VDC]  | 1,000 |
| Module efficiency                 |      | [%]    | 15.13 |
| Practical module efficiency       |      | [%]    | 17.94 |

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   | 36              |
| Number of cells in parallel | 1               |
| Cell technology             | monocrystalline |
| Cell shape                  | rectangular     |

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

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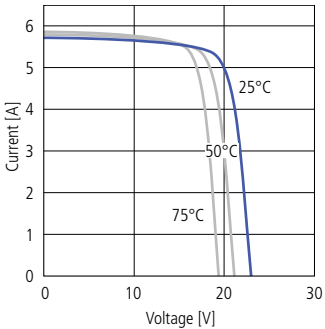
Errors excepted and possible alterations without prior notice. Pictures may differ from actual products depending on local market requirements and regulations. A pump system consists of a controller, motor and pump end. Multiple pumps/pump ends are shown to represent the wide range of pumps (over 70)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

**Sun. Water. Life.**

## Electrical Performance

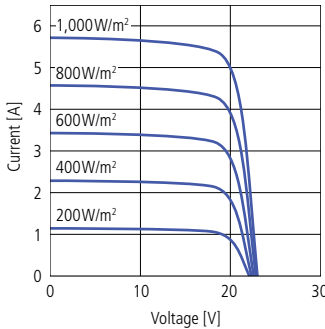
### Electrical Performance

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



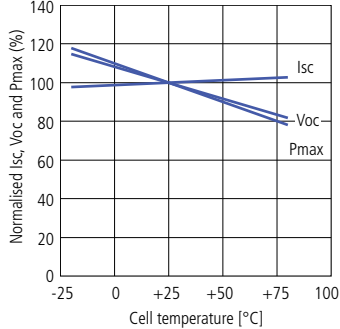
### Electrical Performance

for different irradiation, at 25 °C



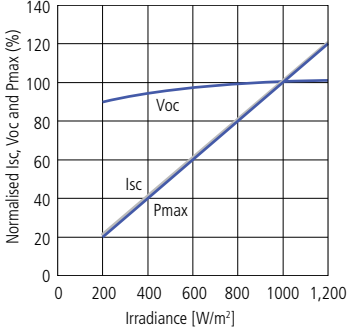
### Temperature Dependence

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

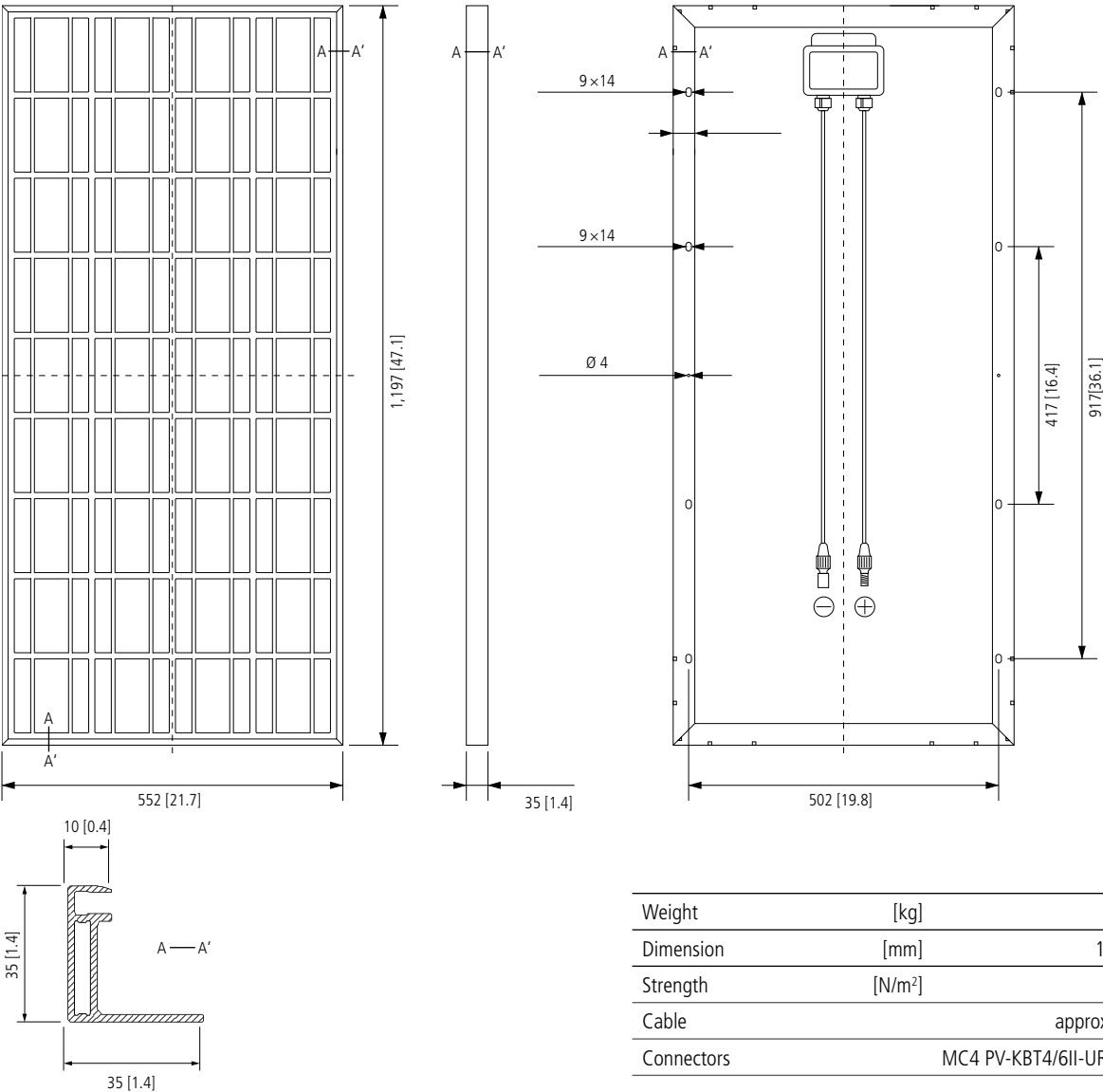


### Irradiation Dependence

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



## Physical Specifications mm



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