

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

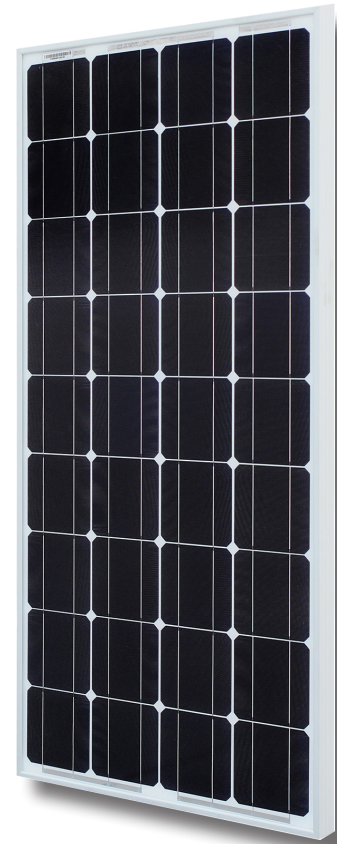


photo may differ from actual product

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.



www.tuv.com
ID 0000046231

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



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/m², 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

BERNT LORENTZ GmbH & Co. KG

Siebenstuecken 24, 24558 Henstedt-Ulzburg, Germany, Tel. +49(0)4193 8806 - 700

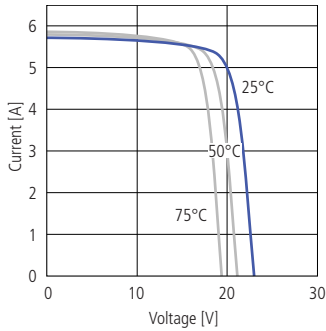
Errors excepted and possible alterations without prior notice. Pictures may differ from actual products depending on local market requirements and regulations. A pump system consists of a controller, motor and pump end. Multiple pumps/pump ends are shown to represent the wide range of pumps (over 70)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

Sun. Water. Life.

Electrical Performance

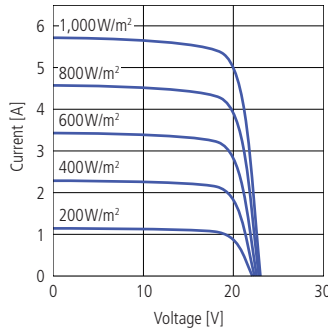
Electrical Performance

for different temperatures, at AM=1.5, E=1,000W/m²



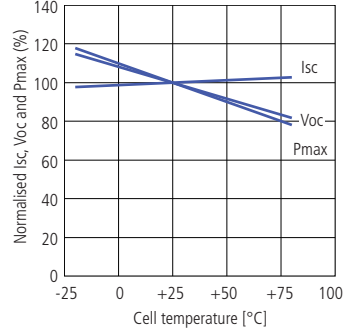
Electrical Performance

for different irradiation, at 25 °C



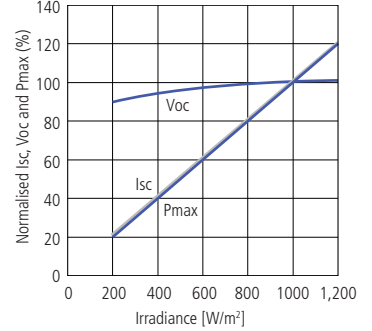
Temperature Dependence

of I_{sc}, V_{oc} and P_{max}

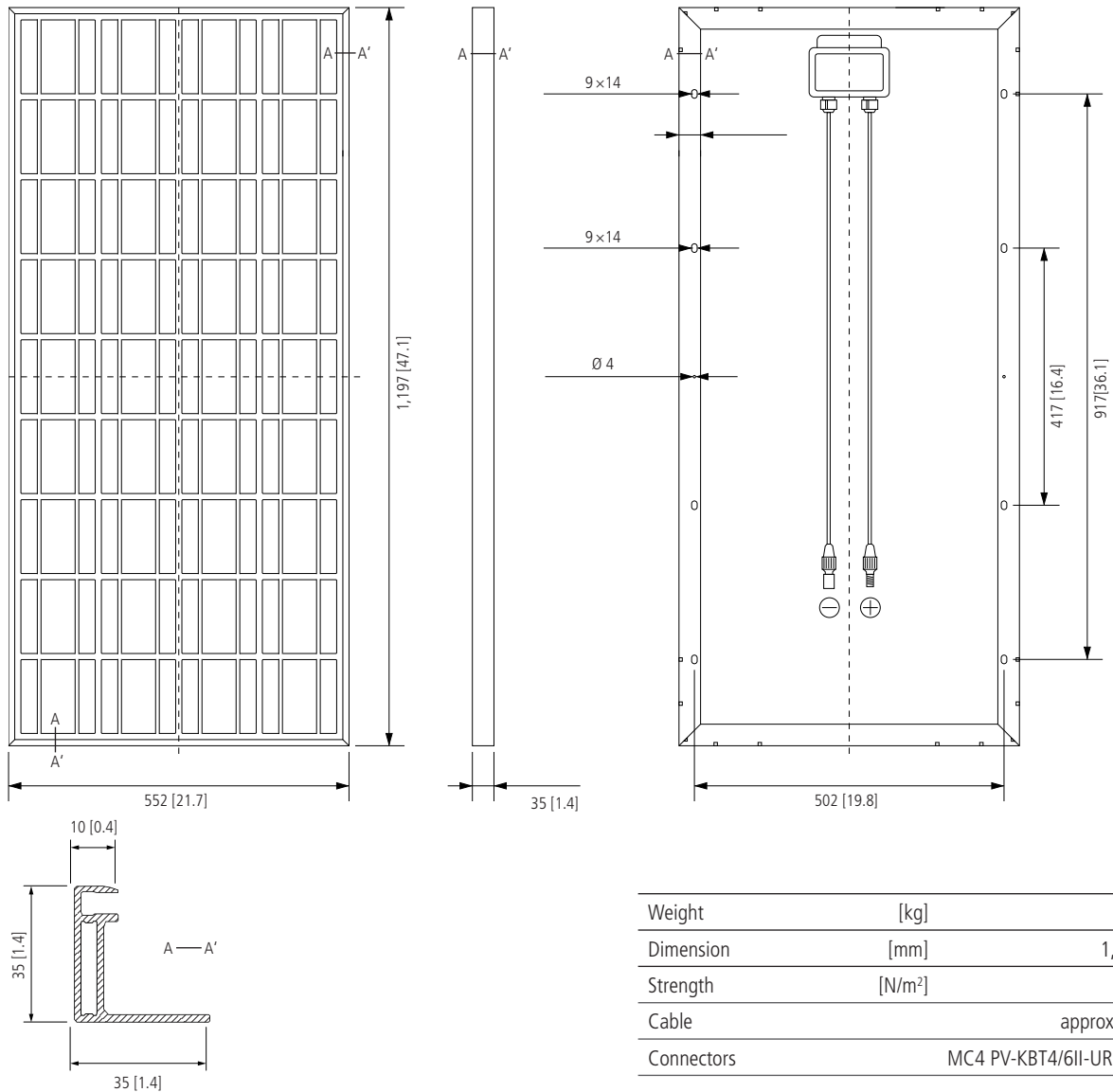


Irradiation Dependence

of I_{sc}, V_{oc} and P_{max} at 25 °C



Physical Specifications mm



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