LORENTZ

LC80-12M
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

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
- etc.

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

LC80-12M is certified according to IEC 61215 and 61730 by TÜV Rheinland and meets the requirements for CE.

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TÜVRheinland®
ID: 0000025105

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

CE

Specifications

Electrical Data

Peak power	Pmax	[Wp]	80
Tolerance		[%]	+3/−3
Max. power current	Imp	[A]	4.6
Max. power voltage	Vmp	[V]	17.2
Short circuit current	Isc	[A]	5.0
Open circuit voltage	Voc	[V]	22.4
Temperature co-efficient for Pmax		[%/°C]	-0.50
Temperature co-efficient for Voc		[%/°C]	-0.35
Temperature co-efficient for Isc		[%/°C]	0.09
Max. system voltage		[V]	600

All technical data at standard test condition:
AM = 1.5, E = 1,000 W/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

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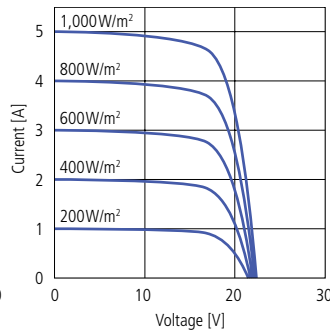# Electrical Performance

Electrical Performance

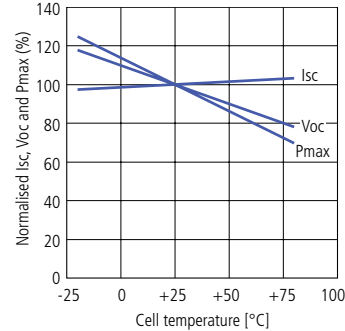for different temperatures, at AM=1.5, E=1,000W/m²
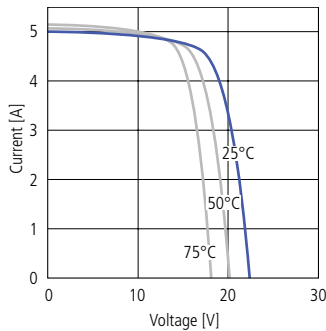
Electrical Performance
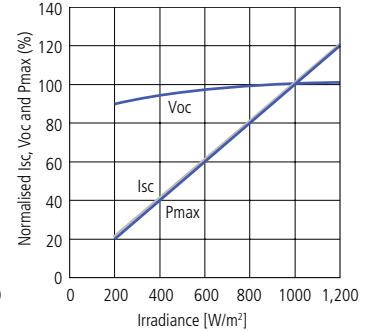
for different irradiation, at 25 °C
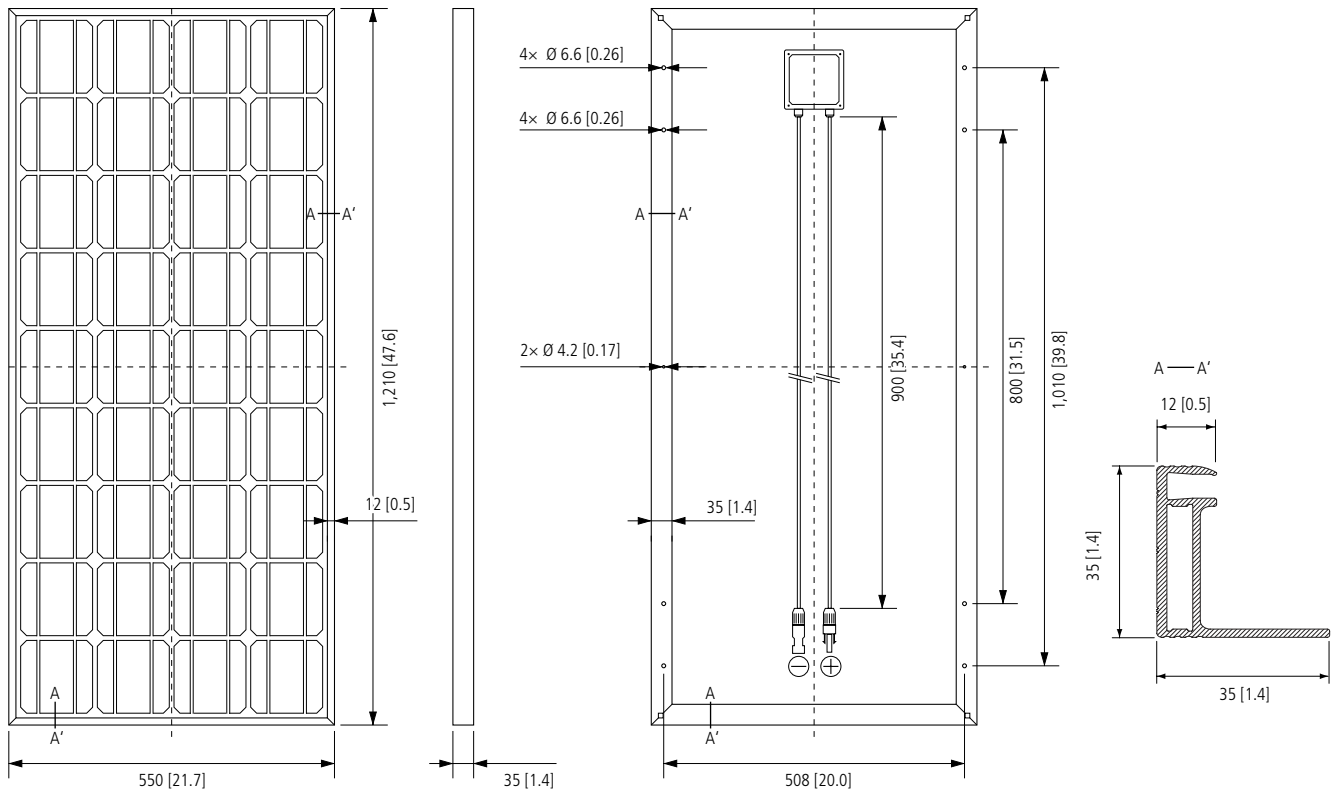

Temperature Dependence

of Isc, Voc and Pmax

Irradiation Dependence

of Isc, Voc and Pmax at 25 °C

Physical Specifications mm [in]

Weight	[kg]	9.6
Dimension	[mm]	550 × 1,210 × 35
Strength	[N/m²]	2,400
Cable	approx. 900 mm / 35 in, 4 mm² / AWG12	
Connectors	NBZH PV-ZH202 or compatible	

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