

LC40-12M

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
- 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.

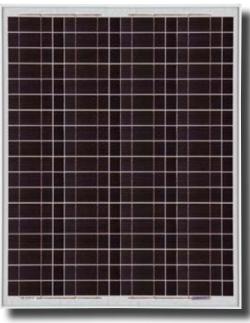


photo may differ from actual product

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

LC40-12M meets the requirements for IEC and CE.



Specifications

Electrical Data

Peak power	Pmax	[Wp]	40
Tolerance		[%]	+ 15/- 5
Max. power current	Imp	[A]	2.3
Max. power voltage	Vmp	[V]	17.1
Short circuit current	lsc	[A]	2.6
Open circuit voltage	Voc	[V]	21.7
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	2
Cell technology	monocrystalline
Cell shape	rectangular

Sun. Power. Life.

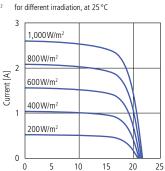


Electrical Performance

Electrical Performance

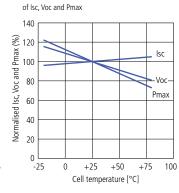
for different temperatures, at AM=1.5, E=1,000W/m²

Electrical Performance

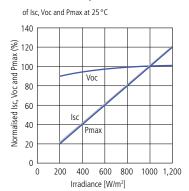


Voltage [V]

Temperature Dependence



Irradiation Dependence



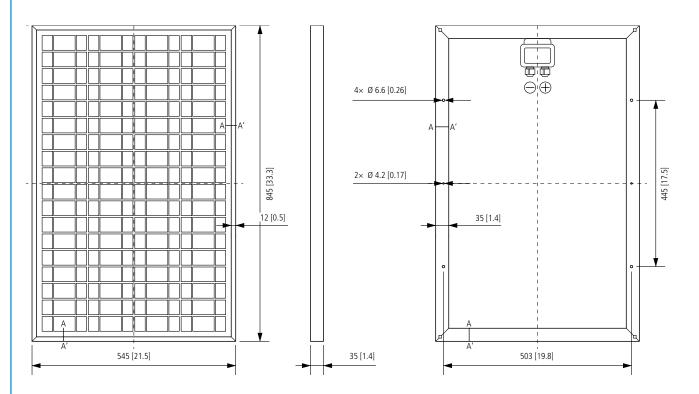
Physical Specifications mm [in]

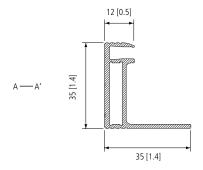
15

Voltage [V]

10

20 25





V	Veight	[kg]	7.0
D	imension	[mm]	545 × 845 × 35