

# 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,  $E = 1,000W/m^2$ , cell temperature: 25 °C

## Cells

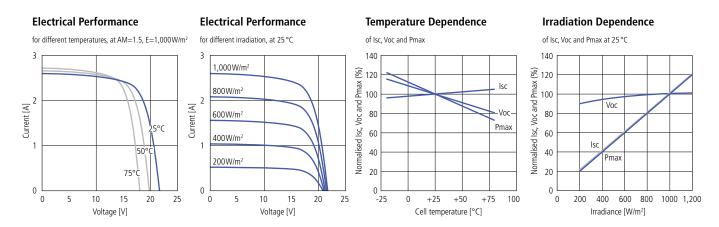
Number of cells in series	36
Number of cells in parallel	2
Cell technology	monocrystalline
Cell shape	rectangular

## To find out more visit www.lorentz.de

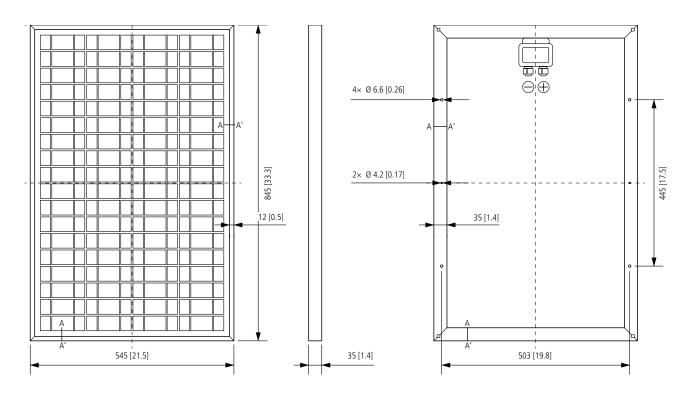


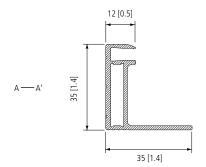


## **Electrical Performance**



# Physical Specifications mm [in]





Weight	[kg]	7.0
Dimension	[mm]	$545 \times 845 \times 35$
Strength	[N/m <sup>2</sup> ]	2,400

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