

# LC175-24M 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.



#### 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**

LC175-24M meets the requirements for CE and IEC.



#### **Specifications**

#### **Electrical Data**

Peak power	Pmax	[Wp]	175
Tolerance		[%]	+ 10/- 5
Max. power current	Imp	[A]	5.0
Max. power voltage	Vmp	[V]	35.0
Short circuit current	lsc	[A]	5.4
Open circuit voltage	Voc	[V]	44.4
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]	1,000

All technical data at standard test condition: AM = 1.5, E = 1,000 W/m<sup>2</sup>, cell temperature: 25 °C

#### Cells

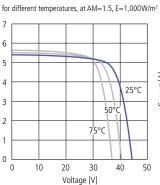
Number of cells in series	72
Number of cells in parallel	1
Cell technology	monocrystalline
Cell shape	rectangular

# Sun. Power. Life.

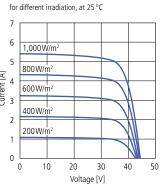


# **Electrical Performance**

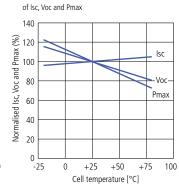
# **Electrical Performance**



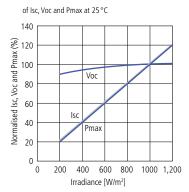
#### **Electrical Performance**



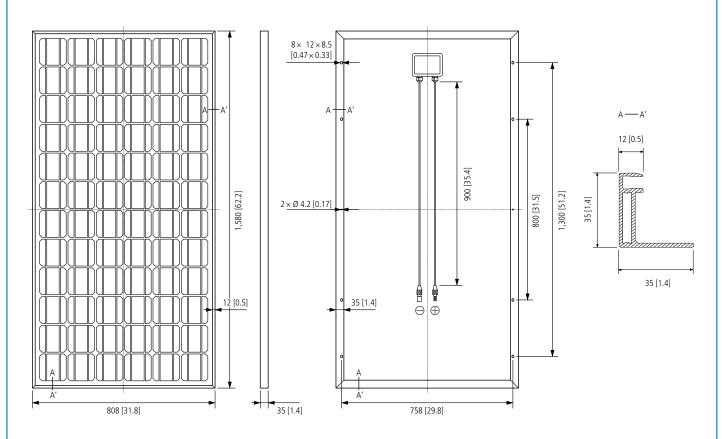
**Temperature Dependence** 



Irradiation Dependence



# Physical Specifications mm [in]



Weight	[kg]	15.4
Dimension	[mm]	808 × 1,580 × 35
Cable	approx. 900 mm / 35 in, 4 mm² / AWG12	
Connectors		NBZH PV-ZH202