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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Jiangsu SunLink PV Technology Co., Ltd.**

**SL180-24M**

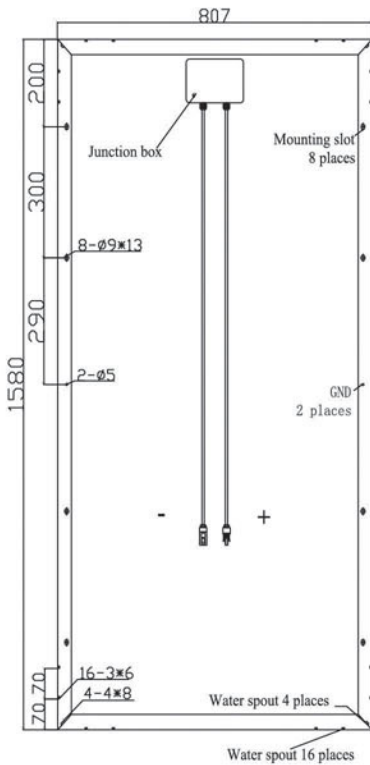
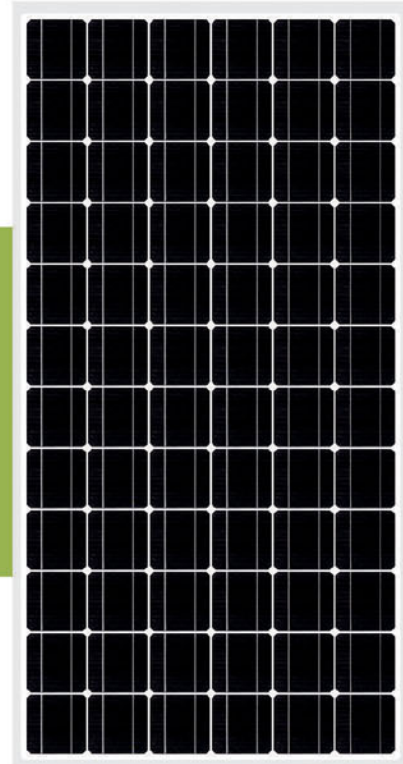
**SL180-24M 190**

Also available on the web at

[EnergyPal.com/jiangsu-sunlink-pv-technology-co-ltd-solar-panels/sl180-24m-190](http://EnergyPal.com/jiangsu-sunlink-pv-technology-co-ltd-solar-panels/sl180-24m-190)

# 200 W Maximum Power

High Efficiency Mono-crystalline Solar Module



## BENEFITS

- High and stable conversion efficiency based on over 8 years professional experience
- High reliability with guaranteed 0 - + 3 % output power tolerance
- Proven materials, tempered front glass and a sturdy anodized aluminum frame allow modules to operate reliably in multiple mountly configuration
- Combination of high efficiency and attractive appearance

## QUALITY AND SAFETY

- 25-year output power warranty
- ISO9001: 2008 (Quality Management System) certified factory
- IEC 61215, Safety tested IEC 61730, CE
- Product Liability Insurance guarantee end users' benefit
- Hail impact: 277 g steel ball falling from 1 m height, 60 m/s wind speed increased snow load according to IEC 61215: up to 5400 N/m<sup>2</sup> wind load and suction according to IEC 61215: up to 2400 N/m<sup>2</sup>

## TEMPERATURE COEFFICIENTS

Temperature coefficients		at 1000 W/m <sup>2</sup> , 25 °C, air mass: 1.5
Voltage coefficient ( $V_{oc}$ )	$\beta$	- 0.35 %/K
Current coefficient ( $I_{sc}$ )	$\alpha$	+ 0.055 %/K
Power coefficient ( $P_{mpp}$ )	$\gamma$	- 0.45 %/K
Minimum power tolerance		0 - + 3 %



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# 200 W Maximum Power



## TECHNICAL DATA

Solar cell	72 mono-crystalline 125 × 125 mm
Front glass	3.2 mm tempered glass
Junction box	IP65 rated
Bypass-diodes	3 pieces
Output cables	900 mm length cable, compliable with MC IV connectors
Frame	anodized aluminium
Weight	15 kg
Dimensions	1580 × 807 × 35 mm

## ELECTRICAL DATA

Module Type	SL180-24M200	SL180-24M195	SL180-24M190	SL180-24M185	SL180-24M180
Nominal peak power ( $P_{max}$ )	200 W	195 W	190 W	185 W	180 W
Nominal voltage ( $V_{mpp}$ )	36.2 V	36.2 V	36.2 V	36.2 V	36.0 V
Nominal current ( $I_{mpp}$ )	5.52 A	5.38 A	5.25 A	5.11 A	5.00 A
Open circuit voltage ( $V_{oc}$ )	45.5 V	45.5 V	45.4 V	45.2 V	45.0 V
Short circuit current ( $I_{sc}$ )	5.72 A	5.58 A	5.44 A	5.32 A	5.20 A
Module efficiency	15.7 %	15.3 %	14.9 %	14.5 %	14.1 %
Operating Temperatre	- 40 to + 85 °C	- 40 to + 85 °C	- 40 to + 85 °C	- 40 to + 85 °C	- 40 to + 85 °C
Maximum System Voltage	1000 V DC	1000 V DC	1000 V DC	1000 V DC	1000 V DC

STC: Irradiation: 1000 W/m<sup>2</sup>, module temperature: 25 °C, air mass: 1.5 (EN 60904-3)

Maximum power ( $P_{max}$ )	144 W	140 W	137 W	133 W	130 W
Nominal voltage ( $V_{mpp}$ )	34.7 V	34.7 V	34.7 V	34.7 V	34.5 V
Nominal current ( $I_{mpp}$ )	4.15 A	4.05 A	3.95 A	3.84 A	3.76 A
Open circuit voltage ( $V_{oc}$ )	42.0 V	42.0 V	41.9 V	41.7 V	41.5 V
Short circuit current ( $I_{sc}$ )	4.26 A	4.16 A	4.05 A	3.96 A	3.87 A

NOCT: Irradiation: 800 W/m<sup>2</sup>, module temperature: 45 °C, air mass: 1.5

Performance under weak light conditions (200 W/m<sup>2</sup>) EN60904-1. 95.3 % or higher of the STC efficiency (1000 W/m<sup>2</sup>) is achieved

## PACKING CONFIGURATION

Container	20' GP	40' GP
Pieces per pallet	12	28
Pallets per container	31	31
Pieces per container	372	868

## WARRANTY AND CERTIFICATIONS

Warranty	10 years workmanship 12 years 90 % of the nominal power warranty 25 years 80 % of the nominal power warranty
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Certifications	IEC 61215, Safety tested IEC 61730 part 2, CE
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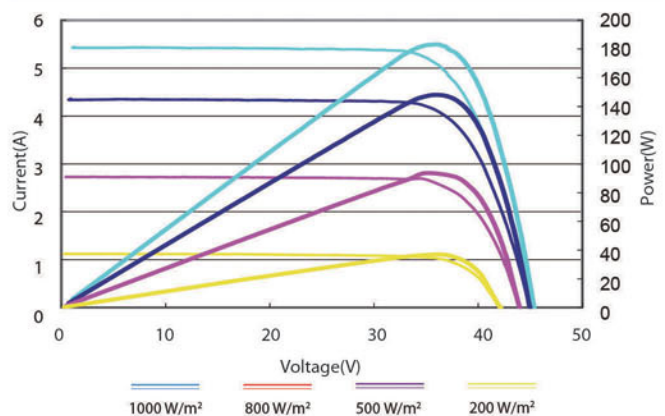
CAUTION: Read Safety And Installation.Instructions Before Using The Product.

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## Current-Voltage & Power-Voltage Curve (SL180-24M180)



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