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Solar Panel Guide Specification Data Sheet

Jiangsu SunLink PV Technology Co., Ltd.

SL280-24M

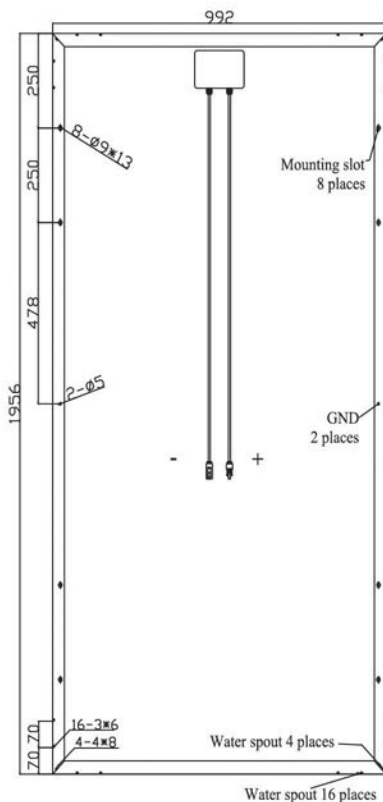
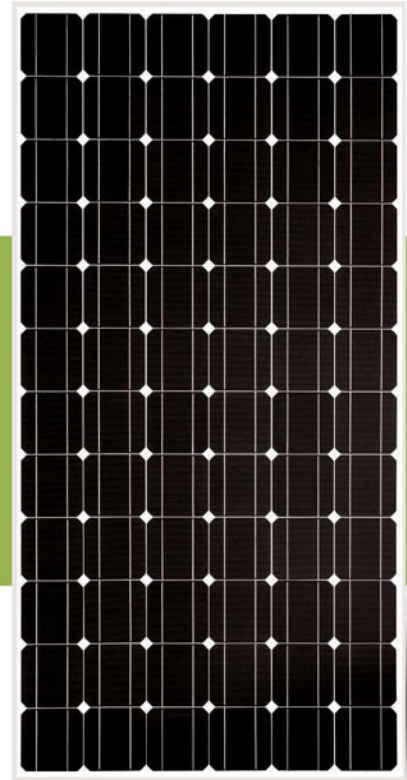
SL280-24M 285

Also available on the web at

EnergyPal.com/jiangsu-sunlink-pv-technology-co-ltd-solar-panels/sl280-24m-285

305 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 mountily 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/m² wind load and suction according to IEC 61215: up to 2400 N/m²

TEMPERATURE COEFFICIENTS

Temperature coefficients		at 1000 W/m ² , 25 °C, air mass: 1.5
Voltage coefficient (V_{oc})	β	- 0.35 %/K
Current coefficient (I_{sc})	α	+ 0.055 %/K
Power coefficient (P_{mpp})	γ	- 0.45 %/K
Minimum power tolerance		0 - + 3 %



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305 W Maximum Power



TECHNICAL DATA

Solar cell	72 mono-crystalline 156 × 156 mm
Front glass	4.0 mm tempered glass
Junction box	IP65 rated
Bypass-diodes	6 pieces
Output cables	1200 mm length cable, compatible with MC IV connectors
Frame	anodized aluminium
Weight	27 kg
Dimensions	1956 × 992 × 45 mm

ELECTRICAL DATA

Module Type	SL280-24M305	SL280-24M300	SL280-24M295	SL280-24M290	SL280-24M285
Nominal peak power (P_{max})	305 W	300 W	295 W	290 W	285 W
Nominal voltage (V_{mpp})	36.3 V	36.2 V	36.1 V	36.0 V	35.9 V
Nominal current (I_{mpp})	8.40 A	8.28 A	8.17 A	8.05 A	7.94 A
Open circuit voltage (V_{oc})	45.1 V	45.0V	44.9 V	44.8 V	44.6 V
Short circuit current (I_{sc})	9.26 A	9.13A	9.05 A	9.0 A	8.93 A
Module efficiency	15.7 %	15.4 %	15.2 %	14.9 %	14.7 %
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/m², module temperature: 25 °C, air mass: 1.5 (EN 60904-3)

Maximum power (P_{max})	220 W	216 W	213 W	209 W	205 W
Nominal voltage (V_{mpp})	34.8 V	34.7 V	34.6 V	34.5 V	34.4 V
Nominal current (I_{mpp})	6.32A	6.23 A	6.15 A	6.06 A	5.97 A
Open circuit voltage (V_{oc})	41.6 V	41.5 V	41.4 V	41.3 V	41.2 V
Short circuit current (I_{sc})	6.90A	6.80A	6.74A	6.70 A	6.65 A

NOCT: Irradiation: 800 W/m², module temperature: 45 °C, air mass: 1.5

Performance under weak light conditions (200 W/m²) EN60904-1, 95.3 % or higher of the STC efficiency (1000 W/m²) is achieved

PACKING CONFIGURATION

Container	40' HC
Pieces per pallet	22
Pallets per container	22
Pieces per container	484

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

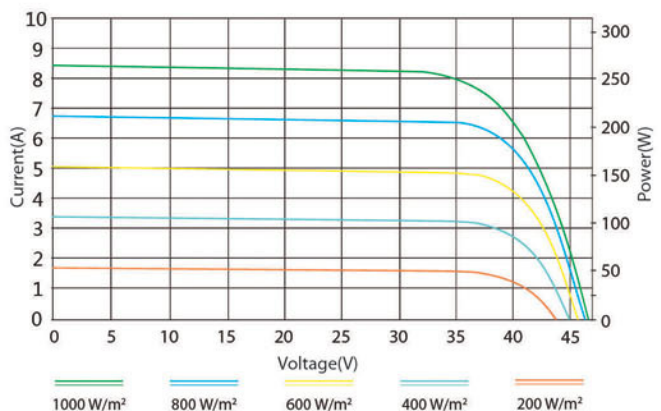
CAUTION: Read Safety And Installation.Instructions Before Using The Product.

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Current-Voltage & Power-Voltage Curve (SL280-24M285)



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