



400W-420W FLEXIBLE SOLAR PANEL – PRODUCT DATASHEET

Product Name: Flexible Panel - New - 182 Sixteen Busbar

Product Model: JSL-182-400-420

Document Version: 2026-V1

Product Specification: 2247×1008×1.2mm

Brand: JSL Power

Distributed by : JSL Power

TABLE OF CONTENTS

1. Mechanical Parameters
2. Solar Panel Electrical Performance Parameters
3. Cell Temperature Coefficient
4. Precautions
5. Warranty
6. Packaging

1. MECHANICAL PARAMETERS

Parameter	Specification
Cell Type	182 10-bus monocrystalline silicon cell
Individual Cell Dimensions	182*91mm
Panel Length	2247 mm ±5 mm
Panel Width	1008 mm ±3 mm
Panel Thickness (measured 10mm from panel edge)	1.2 mm ±0.5 mm (7.6 mm ±0.5 mm with junction box)Junction
Junction Box	PV-SY001 3-parts junction box
Module Output Cable	MC4 compatible connector, 4 mm ² cable, 450 mm (with connector). Cable & connector customizable
Weight (single unit net weight)	8.6 Kg ±0.5 Kg
Accessories	/

*Footnote: *Cell grid and model may be adjusted according to market changes, which may lead to minor dimension tolerance.

2. SOLAR PANEL ELECTRICAL PERFORMANCE PARAMETERS

Model JSL-182-400-420	400	405	410	415	420
Peak Operating Power Pmax (W)	400	405	410	415	420
Peak Operating Voltage Vmp (V)	34.2	34.32	34.44	34.68	34.8
Peak Operating Current Imp (A)	11.7	11.8	11.9	11.97	12.07
Open-Circuit Voltage Voc (V)	40.8	40.92	41.04	41.28	41.4
Short-Circuit Current Isc (A)	12.28	12.39	12.5	12.57	12.67
Cell Efficiency Eff.(%)	22.6	22.8	23.0	23.4	23.6

*Notes:

- STC: Standard Test Condition: AM=1.5, 25°C, 1000W/m²
- Tolerance of Pmax: ±5W, measurement uncertainty: ±3%
- Tolerance for Vmp, Imp, Voc and Isc: ±3%

3. CELL TEMPERATURE COEFFICIENTS

Parameter	Coefficient
Power Temperature Coefficient	-0.4%/ K
Voltage Temperature Coefficient	-0.31%/ K
Current Temperature Coefficient	+0.038%/ K

*Notes: *Refer to cell datasheet. °C = K - 273.15, Spectral Response (SR).

4. PRECAUTIONS

4.1 OPERATING ENVIRONMENT

Use in an unobstructed outdoor environment with direct sunlight. The panel surface should be as perpendicular to sunlight as possible.

4.2 STORAGE CONDITIONS (LONG-TERM)

Temperature: 10–35°C; Humidity: not exceeding 60%.

4.3 OPERATING TEMPERATURE

-20°C ~ 60°C. Keep away from open flames. Do not allow high-temperature devices to contact the solar panel.

4.4 CHEMICAL EXPOSURE

This product must not come into contact with strongly corrosive substances.

4.5 PHYSICAL HANDLING

During use, avoid scratching or impacting the solar panel surface with hard objects. Handle with care.

4.6 STRUCTURAL STRESS

During transport and mounting, avoid subjecting the solar panel to significant bending stress.

4.7 ELECTRICAL SAFETY

When performing mounting, grounding, wiring, cleaning, or other operations on the photovoltaic module, always use appropriate electrical safety protective equipment to avoid electric shock or cuts.

5. WARRANTY

Module warranty period: 5 year. Within the warranty period, if quality issues arise with the product, we will provide corresponding repair and replacement services.

6. PACKAGING

Provisional, customization is available upon request:

- 46 pcs per pallet
- 920 pcs per 40' HQ container