



505W FLEXIBLE SOLAR PANEL – PRODUCT DATASHEET

Product Name: Flexible solar panel

Product Model: JSL-182 505W

Document Version: 2026-V1

Product Specification: 2247×1197×3.0mm

Brand: JSL Power

Distributed by : JSL Power

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1. MECHANICAL PARAMETERS

Parameter	Specification
Cell Type	182×182 10BB Monocrystalline Cell （Eff%≥23.6%）
Individual Cell Dimensions	182×91mm
Panel Length & Width	(2247±5) * (1197±3) mm
Panel Thickness (measured 10mm from panel edge)	3.0mm ±0.5mm (without junction box)
Junction Box	PV-SY001 Triple Junction Box
Wire	Wire MC4 compatible connector, 4mm ² wire, length 450mm (with connector), wire/connector can be customized
Weight (single unit net weight)	9.8kg ±0.5kg
Accessories	/

*Cell busbar configuration, model, and brand may be subject to minor adjustments in response to market changes, which may result in minor dimensional adjustments accordingly.

2. SOLAR PANEL ELECTRICAL PERFORMANCE PARAMETERS

Parameter	Value
Peak Operating Power Pmax (@STC)	505W
Peak Operating Voltage Vmp (@STC)	42.04V
Peak Operating Current Imp (@STC)	12.01A
Open-Circuit Voltage Voc (@STC)	49.7V
Short-Circuit Current Isc (@STC)	12.61A

*STC: Standard Test Conditions (Standard Tested Condition): AM=1.5, 25°C, 1000W/m².

*Electrical performance parameters may vary for each individual product. Actual values refer to test data. Parameter tolerance: -5% ~ +10%.

3. CELL TEMPERATURE COEFFICIENTS

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

*Reference cell datasheet. °C = K - 273.15.

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

6. PACKAGING

Place foam corner protectors on the four corners of a single solar panel and pack it into an inner box

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