

flex<sup>®</sup>



SOLAR PANELS.



PowerPlay



# POWERPLAY SOLAR PANELS

60 CELL POLYCRYSTALLINE: 265 W - 275 W

**Optimal output:**

PID free

**Superior quality:**

IEC Standards. IEC 61730, 61215

At the heart of your PowerPlay system are the solar panels, capturing sunlight and transforming it into electricity. They're tested beyond industry standards for Potential Induced Degradation, so they won't degrade, providing optimal energy output for the full 25 years of their warranty.

Designed to work in low light, the high-transparency glass has an anti-soiling coating that requires minimal maintenance. They're made to withstand Australia's extreme weather, and come with an extended warranty for coastal areas – proof of their resilience to corrosive sea air. It's the kind of quality you only get from Flex, a world leader in solar panel design and production.

## First Class Warranty:

- 12 year warranty for materials and workmanship
- 25 year linear power warranty at STC
- Year 1: < 3% power loss below rated power
- Years 2 - 25: < 0.7% incremental power loss per year



## Mechanical parameters

Cell (mm)	Poly 156.75 x 156.75
Weight (kg)	18.1
Dimensions (LxWxH) (mm)	1640 x 992 x 35
Cable Cross Section Size (mm <sup>2</sup> )	4
No. of Cells and Connections	60 (6 x 10)
Junction Box	IP67, 3 diodes
Connector	Multi-Contact MC4
Packaging Configuration	30 Per Pallet

## Working conditions

Maximum System Voltage	DC 1000 V (IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	15 A
Maximum Static Load, Front	5400 Pa
Maximum Static Load, Back	2400 Pa
Normal Operating Cell Temperature (NOCT)	45±2°
Application Class	Class A
Fire Safety	Class C

## Electrical parameters

Rated Maximum Power at STC (W)	265	270	275
Open Circuit Voltage (Voc/V)	38.1	38.3	38.5
Maximum Power Voltage (Vmp/V)	31	31.2	31.4
Short Circuit Current (Isc/A)	9.2	9.29	9.38
Maximum Power Current (Imp/A)	8.55	8.65	8.76
Module Efficiency (%)	16.3	16.6	16.9
Power Tolerance (W)			-0~+5 W
Temperature Coefficient of Isc (αIsc)			+0.055%/°C
Temperature Coefficient of Voc (βVoc)			-0.32%/°C
Temperature Coefficient of Pmax (γPmp)			-0.41%/°C
STC	Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, Air Mass 1.5		

## Electrical data (NOCT)

Type	265	270	275
Max Power (Pmax) (W)	193.91	197.82	200.36
Open Circuit Voltage (Voc) (V)	35.5	35.7	35.9
Max Power Voltage (Vmp) (V)	27.9	28.1	28.3
Short Circuit Current (Isc) (A)	7.45	7.55	7.62
Max Power Current (Imp) (A)	6.95	7.04	7.08

Condition - Under NOCT, irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s. Values at Standard Test Conditions (STC) (Air Mass AM 1.5, irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C).

FLV-MB-S60AW