

flex<sup>®</sup>



SOLAR PANELS.



PowerPlay

# POWERPLAY SOLAR PANELS

60 CELL PERC MONO: 285 W - 295 W

FLV-MB-P60AB

**High performance:** PERC Monocrystalline cells  
**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.

These panels feature PERC technology, adding an extra layer to the rear of the cells to boost energy generation, maximising the output of each panel.

And because they're made by Flex, one of the world's leading manufacturers of solar panels, you can be confident you'll get the power you expect from your system.

## First Class Warranty:

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



These solar panels are designed to integrate with other PowerPlay products including inverters, batteries, monitors and the Energy Hub. Products displayed may differ to those available in your area.

## Mechanical parameters

Cell (mm)	Mono 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	IP68, 3 diodes
Connector	Multi-Contact MC4
Frame	Black, anodized aluminium alloy
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
Application Class	Class A
Fire Safety	Class C

## Electrical specification (STC)

Rated Maximum Power at STC (W)	285	290	295
Open Circuit Voltage (Voc/V)	38.9	39.1	39.5
Maximum Power Voltage (Vmp/V)	31.8	32.0	32.2
Short Circuit Current (Isc/A)	9.54	9.63	9.69
Maximum Power Current (Imp/A)	8.96	9.06	9.16
Module Efficiency (%)	17.5	17.8	18.1
Power Tolerance (W)	-0 ~ +5 W		

## Temperature ratings

Temperature Coefficient of Isc (αIsc)	+0.055%/°C
Temperature Coefficient of Voc (βVoc)	-0.32%/°C
Temperature Coefficient of Pmax (γPmp)	-0.41%/°C
Normal Operating Cell Temperature (NOCT)	45±2°

## Electrical data (NOCT)

Max Power (Pmax) (W)	209.33	211.94	214.86
Open Circuit Voltage (Voc) (V)	35.6	35.9	36.1
Max Power Voltage (Vmp) (V)	29.4	29.6	29.8
Short Circuit Current (Isc) (A)	7.68	7.75	7.83
Max Power Current (Imp) (A)	7.12	7.16	7.21

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).