

# ROCKSOLAR

## AC/DC Hybrid Solar Swimming Pool Pump Datasheet

### ***Product Overview***

This hybrid solar swimming pool pump is designed for efficient water circulation using either solar DC power or conventional AC grid power. Built with high-efficiency components and integrated MPPT technology, the pump automatically optimizes solar energy usage to deliver reliable performance for residential pools, ponds, irrigation systems, and water transfer applications.

### ***Key Features***

- Hybrid AC/DC operation for flexible power supply
- Built-in MPPT controller for maximum solar efficiency
- High-efficiency brushless motor
- Plastic impeller with copper winding and NSK bearings
- All-copper 180°C high-temperature cable
- Integrated display panel for system status and error codes
- Designed for long service life and reliable operation

### ***Technical Specifications***

Parameter	Specification
Model	A/D-FCP1100s
Rated Power	1600W
Horsepower	2.14 HP
Maximum Flow Rate	129 GPM
Maximum Head	68 ft
Inlet and outlet Diameter	2.5 inch
Motor Type	Brushless DC Motor
Pump Type	AC/DC Hybrid Solar Pump

### ***Electrical Specifications***

<b>Parameter</b>	<b>Specification</b>
AC Input Voltage	150 – 240 V
DC Input Voltage	40– 450V
Recommended Solar Voltage	180 – 230V
Recommended Solar Panels	440 W x 5 panels

### ***Typical Applications***

- Swimming pool water circulation
- Pond and water feature circulation
- Agricultural irrigation
- Solar water pumping systems
- Water transfer and storage

### ***Certifications***

ISO9001 • ISO14001 • TÜV