

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-FCP1500s
Rated Power	2200W
Horsepower	3.0HP
Maximum Flow Rate	160 GPM
Maximum Head	85 ft
Inlet and outlet Diameter	2.5 inch
Motor Type	Brushless DC Motor
Pump Type	AC/DC Hybrid Solar Pump

Electrical Specifications

Parameter	Specification
AC Input Voltage	150 – 240 V
DC Input Voltage	40– 450V
Recommended Solar Voltage	220 – 300V
Recommended Solar Panels	440 W x 6 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