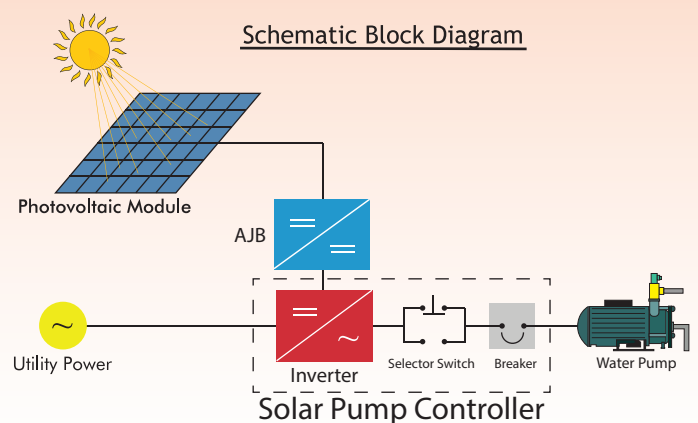# SWEES

SOLAR WATER PUMP

SVFA SERIES

- SVFA 3
- SVFA 5
- SVFA 7.5
- SVFA 10

Components of Solar-Powered Water Pump System

- PV array
- Module Mounting Structure
- Electrical controller/Pump Inverter
- Electric-powered pump
- Selector switch and Breaker

Schematic Block Diagram

Photovoltaic Module

AJB

Utility Power

Inverter   Selector Switch   Breaker   Water Pump

Solar Pump Controller

Accredited as Channel Partner for Off-grid and Decentralized Solar Applications (PV) under JNNSM by MNRE
Empanelled as Energy Service Company with Bureau of Energy Efficiency (BEE)

SOLAR WATER PUMP – SVFA SERIES

Applications

- Drinking / Desert / Agriculture Water Supply
- Fertigation For Green Houses
- Desalination of Water
- Scenic sport fountains
- Aeration machine cooling tower and other Industrial usage

Technical Specification

Model No.	SVFA 3	SVFA 5	SVFA 7.5	SVFA 10
Motor Pump HP Rating	3 HP	5 HP	7.5 HP	10 HP
VFD capacity	4 kWp	5.5 kWp	7.5 kWp	11 kWp
DC Voltage Range	250 V to 800 Vdc			
PV Vmp Range	450 V - 650 Vdc			
Recommended PV Vmp (Max Efficiency)	550 Vdc			
Output voltage	400 VAC			
Output current	8 A	12 A	16 A	23 A
Output Frequency	50 Hz			
Ambient Temp Range	0-50°C			
Protection	Overload, Short Circuit, Over Temperature, Under Voltage, Over Voltage, Surge Protection			
Enclosure rating	IP54			
Communication	Optional			

Recommended Panel configuration

320Wp - 72cell	10 series + 1	15 series + 1	11 series + 2 parallel	15 series + 2 parallel

Specifications subject to change without prior notice.