

Independent Water Pumping Systems

SDS Series Submersible Pumps



SunPumps SDS series pumps are ideal for supplying water for livestock, remote homes and for small irrigation systems. They are easy to install by hand without any special tools.

Typical Applications:

- Livestock Water Systems
- Home Water Systems
- Small Irrigation Systems
- Tank Water Circulation
- Small Pond Water Systems
- Small Fish Farm Applications
- Rain Water Catchments
- Sump Pump Applications

SunPumps SDS series submersible pumps are highly efficient, low voltage, DC powered, diaphragm type positive displacement pumps designed specifically for water delivery in remote locations.

They operate on 12 to 30 volts of DC power that may be supplied from a variety of independent power sources including solar panels, wind generators, batteries or any combination of the three. Power requirements can be as little as 20 watts.

Constructed of 316 and 304 stainless steel or all 316 stainless steel, these pumps are the highest quality submersible pumps in their class.



SunPumps SDSP-Q series sump pump is a low cost, high efficiency, positive displacement submersible designed to be an economical solution for solar water pumping applications. Constructed of all stainless steel, these pumps are extremely durable and corrosion resistant.

The design is an off-spring of the already time proven SDS-Q series pump. They operate on 12 to 30 volts DC that can be supplied from a variety of independent DC power sources such as batteries, solar modules or any low voltage DC power source. It is the ideal way to de-water home basements, rain water catchments, or any sump pump application beyond grid power.

SDSP Submersible Sump Pump



SCS Series Submersible Pumps



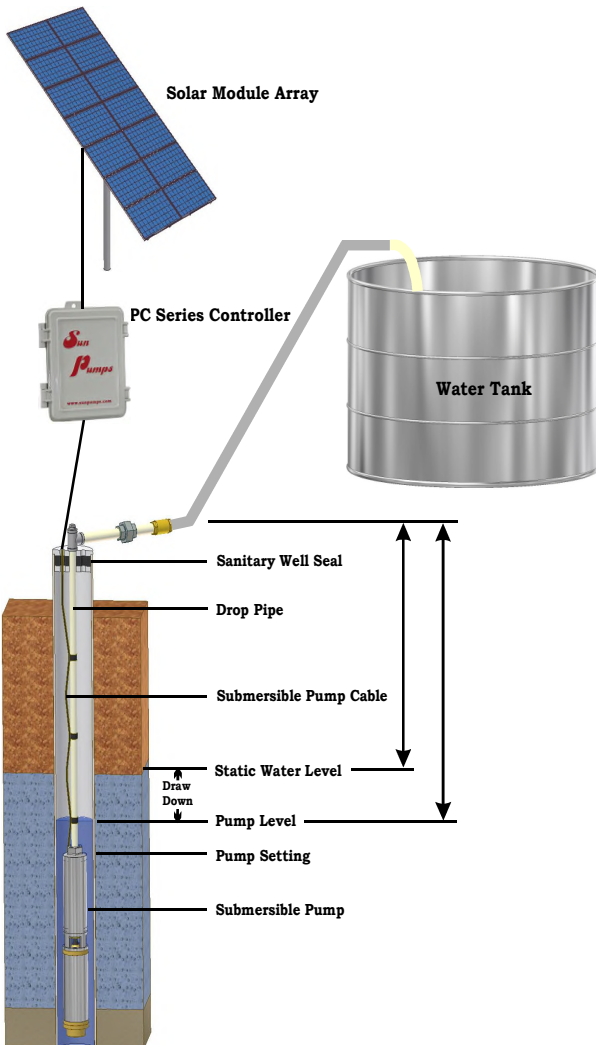
SunPumps SCS series submersibles are high quality, maintenance-free, DC powered pumps specifically made for water delivery in remote locations. They operate on 160 to 3000 watts of DC power with voltage choices ranging from 30 to 240 volts DC.

The submersible motors incorporate the latest in high efficiency, permanent magnet, sensorless, brushless DC technology and there are no electronics inside the motor. They are constructed of corrosion resistant, stainless steel.

The pump ends are multi-stage centrifugals constructed of stainless steel. The impellers are wear resistant glass filled engineered noryl thermoplastic and are resistant to mineral and algae deposits. The bowls are constructed of stainless steel for strength and abrasive resistance.

The SCS series pumps can be installed below the water level in a water well, lake, river, or cistern. They can be used to fill an open tank or used to pressurize home water systems.

Solar Well Pump

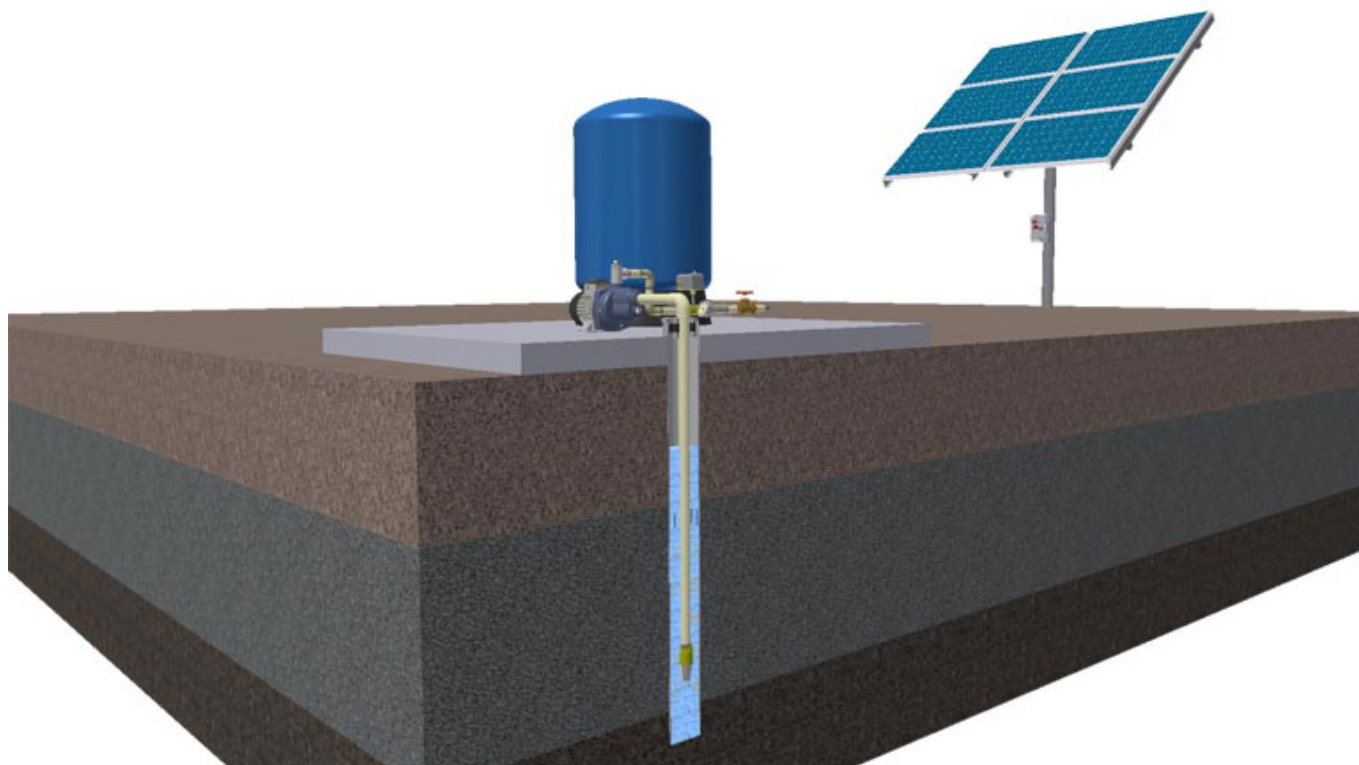


The SCS series pumps are extremely reliable and versatile. They will fit many remote water pumping applications. A few applications are listed below.

Typical Applications:

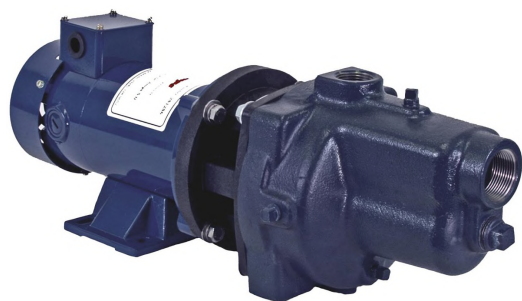
- Flood Irrigation Systems
- Livestock Water Systems
- Home Water Systems
- Village Water Systems
- Sprinkler Systems
- Pond Water Systems
- Fish Farm Applications
- Pond Fountains

SJT Series Jet Pumps



SJT Series Shallow Well Jet Pumps

Brush Type DC Motor



SunPumps SJT series Jet Pumps are high quality, maintenance-free, DC powered pumps specifically designed for water delivery in remote locations. They operate on 180-500 watts of DC power for the brush type motors and 180 to 1000 watts with the sensorless brushless DC motor.

The SJT series jet pumps were designed for use in shallow water wells. They have excellent suction lift capabilities and are primarily used to fill open storage tanks, boost water up hill or they can be used in a pressure system. Their small size and light weight allow easy installation by hand without any special equipment.

Brushless DC Motor



SunPumps SJT series pumps are designed for use in stand alone water delivery systems. They are pollution-free, corrosion-free, self-lubricating and quiet. There is no better way to provide water for remote homes, villages, livestock, small farms as well as many other needs beyond grid power.

SCV Vertical Centrifugal Pumps

Brushless DC Motor



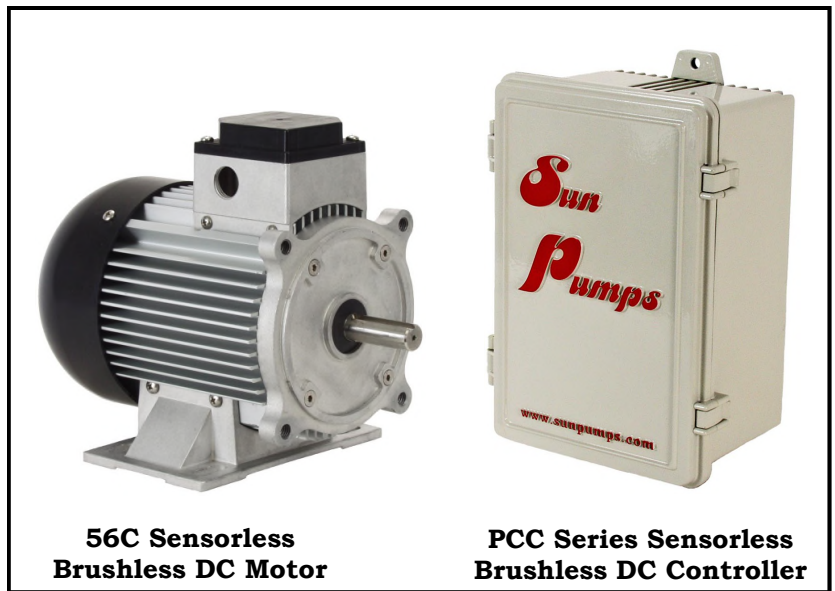
SunPumps SCV series pressure pumps are multi-stage vertical centrifugals designed for boosting pressure from surface water. They are ideal pumps for industrial systems, livestock watering systems, irrigation, sprinkler systems, in-line booster systems and many other pressure systems.

The pumps have a flange mounted cast iron base with impellers, diffusers and pump housing constructed from 304 stainless steel with an optional 316 stainless steel model available for highly corrosive water applications.

The pumps incorporate SunPumps unique sensorless brushless DC motors and PCA & PCC series controllers. Motors range from ½ HP to 3.5 HP with voltages ranging 30 to 240 volts DC.

SunPumps Sensorless Brushless DC Motors are the ultimate in efficiency performance and reliability. Designed specifically for solar applications, these motors are less than have the size and weight of a conventional brush type motor.

The TEFC motor housing is constructed from anodized die cast aluminum with a 316 stainless steel motor shaft. The DC sensorless brushless controller is mounted in a weather proof powder coated die cast aluminum enclosure.



SCB Series Centrifugal Pumps

Brush Type DC Motor



Brushless DC Motor



SunPumps SCB series pressure pumps are multi-stage centrifugals designed primarily for boosting pressure from a surface water source. They are ideal pumps for boosting water up hill, home pressure systems, sprinkler systems, or in-line booster pumps.

The SCB series booster pumps are available in with both brush type DC motors or with sensorless brushless DC motors with voltages ranging from 24 VDC to 48 VDC for battery systems and 45 VDC DC 140 VDC for solar module direct systems.

The pump ends are made from 304 stainless steel with an optional 316 stainless steel model available for highly corrosive water applications. The impellers and diffusers are constructed from FDA compliant, non-metallic glass filled, engineered composite.

SIJ Series Triplex Plunger Pumps

Brush Type DC Motor



SunPumps SIJ series triplex plunger pumps are high pressure pumps designed primarily for boosting pressure from a surface water source. They have flow rates up to 3 gallons per minute and can produce pressures up to 1200 PSI or heads up to 2800 feet. They are ideal pumps for boosting water up hill or can be used as an injection pump.

The SIJ series booster pumps are available in with both brush type DC motors or with sensorless brushless DC motors with voltages ranging from 24 VDC to 48 VDC for battery systems and 45 VDC 240 VDC for solar module direct systems.

Brushless DC Motor



The standard pump ends are made from bronze but 316 stainless models are available for highly corrosive water or chemical injection applications. The bronze models come standard with a regulating unloader valve but it is an add-on option for the 316 stainless steel models.

The SIJ pumps are the ultimate in portability, the pump end are only 10 inches long and weigh less than 11 pounds. They are very high quality and easy to install.

SPB Series Triplex Piston Pumps

SPB 2.5-23C



SunPumps SPB series triplex piston pumps are also high pressure pumps designed primarily for boosting pressure from a surface water source. They have flow rates up to 13 gallons per minute and can produce pressures up to 1200 PSI or heads up to 2800 feet. They are ideal pumps for boosting water up hill or any high pressure application.

The SPB series booster pumps are available with both brush type DC motors or with sensorless brushless DC motors with voltages ranging from 24 VDC to 48 VDC for battery systems and 45 VDC 240 VDC for solar module direct systems.

SPB 10-16C



The standard pump ends are made from chrome plated brass, but 316 stainless models are available for highly corrosive water or chemical injection applications. The cylinders and inlet valves are made from 304 stainless steel and the chrome-moly crankshaft gives unmatched strength and hardness.

The SPB series pumps are mounted on a heavy duty steel base and are built and tested for your specific application.

SCP Series Pool Pumps

Off Grid Solar Pool Pumps

One of the higher electrical costs for a home owner is the cost of running their pool pump. The main advantage for SunPumps SCP series solar pool pumps is zero power cost because all the power is generated from sunlight.

Solar pool pump systems are sized for daylight pumping only. Each system is sized for 1.5 to 2 turn-overs per day which will keep your pool water clean without having to use any grid power.



Brush Type Motor



CMP Series

SunPumps SCP series pumps are single stage centrifugals constructed from high performance thermoplastic. They are extremely resistant to mineral deposits while providing outstanding strength and durability. For added protection there is a basket strainer incorporated into the suction side of the pump. Simplicity is a key feature of the SCP series pumps. They are simple to install and field servicing is easily accomplished without the use of specialized tools.

Brushless DC Motor



CMP Series

There are two types of motors available for the SCP series pool pumps, brush type and sensorless brushless DC. There are also two pump styles, the CMP standard pump with 2" fittings and the HV or high volume pump with 2 1/2" fittings.

Brushless DC Motor



HV Series

SunPumps SCP series solar powered centrifugal pool pumps with brushless DC motors are the ultimate in performance and reliability. Brushless DC motors do not have brushes to wear out so maintenance is very low. SunPumps brushless DC motors have stainless steel motor shafts, sealed motor bearings and a high quality aluminum housing thus providing years of trouble-free service.

SCP series pool pumps will replace almost any AC powered pool pump up to 3 HP, and because they get their power from the sun, you will never have an electric bill.

There are 25 brush type models and 18 sensorless brushless DC models to choose from with flow rates up to 130 G.P.M. They are ETL listed for swimming pool water circulation and for spa applications.

Pond Aerators & Fountains

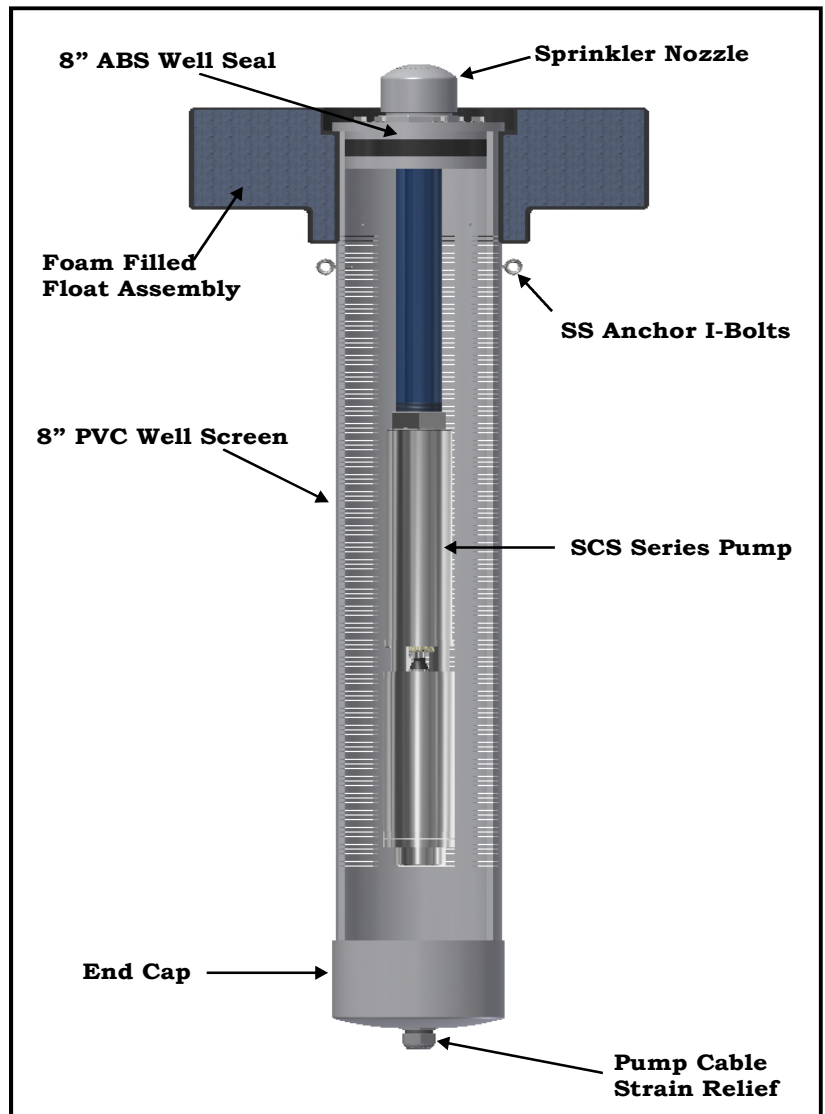
Pond Fountains



SunPumps Solar Powered Pond Aerators and Fountains are perfect for pond aeration and pond water circulation. Pond aeration is a proven solution for adding oxygen to your water while keeping your water clean. When it comes to proper pond or lake water management, aeration is the key.

A pond receives oxygen from two sources, photosynthesis of algae and plants below the water surface and contact with the atmosphere at the water's surface and both are affected by the weather. The amount of wind and sunlight are both unpredictable and can lead to a stagnant water and low oxygen levels. With an addition of a pond aerator or a fountain, these problems are eliminated.

A fountain creates an eye catching focal point to your lake or pond. Besides the aesthetic beauty of the fountain, the falling water creates a pleasing and soothing sound. Water circulation also helps prevent mosquito breeding. Aeration is the key to bigger and healthier fish while promoting good algae growth and eliminating odors.



Pond Aerators



SPV Series AC Motor Drives

SunPumps SPV series Solar Pump Drives are very versatile, three phase 240 VAC 60 HZ or 380/415 VAC, 50 HZ motor controller designed specifically for off-grid solar powered pumping applications. Systems range from 3HP to 60 HP.

The SPV series controller will power any standard three phase 230 - 415 volt induction motor including submersible, vertical hollow shaft or standard horizontal surface motors.

Applications include:

- Row Crop Irrigation Systems
- Center Pivot Sprinkler Systems
- Large Scale Drip Irrigation Systems
- Municipal Water Pumping Systems
- Village Water Pumping Systems
- Livestock Watering Systems
- Pond Aeration For Fish Farms
- Pond Aeration For Waste Water Treatment



Sprinkler Systems



Flood Irrigation



SPV Series Pump Controller

Standard Features

- Soft Start
- Digital Display
- Programable Speed Control
- Heavy Duty NEMA 3R Enclosure
- Float Switch Circuit
- Maximum Power Point Tracking
- Overload Protection
- 97% Efficient at Full Power
- Output Overload Protection
- Two Year Standard Warranty



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