Kyocera Solar Pumps

SD Series Pumps

- Water Delivery up to 4.36 gpm/16.5 lpm, Pumping Range 0-230 feet/0-70 meters
- Highest Quality Submersible Pump in its Class
- Field Serviceable with Simple Hand Tools

The Kyocera SD Series of submersible solar 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 direct current that may be supplied from a variety of independent power sources including solar panels and/or batteries. Power requirements can be as little as 35 watts. Constructed of marine grade bronze and 304 stainless steel, these pumps are the highest quality submersible pumps in their class.

Kyocera's SD series pumps can be installed below water level in a pond, river or cistern, or installed by hand into a ground water well. They can be used to fill an open tank or in a pressurized water delivery system.

Simplicity is the key feature of the SD series pumps. They are easy to install, require very little maintenance and are completely field serviceable.

The SD series pumps are designed for use in ***stand alone*** water delivery systems. They are pollution-free, corrosion-resistant and quiet. It is the ideal way to provide water for livestock, remote homes, campsites, small farms or any other need beyond the commercial power grid.

Models SD 3-70/6-35
Suitable for installation in 4.0 inch (100.0 mm) minimum inside diameter wells. The addition of a sand shroud requires installation in 5.0 inch (127.0 mm) minimum inside diameter wells. Flow rates up to 2.4 GPM (9.0 LPM) and heads up to 230 feet (70.0 meters).
Dimensions (Outside Diameter, Length, Weight):
3.8 in. (96.0 mm), 10.75 in. (273.0 mm), 21.0 lbs. (9.5 kg)

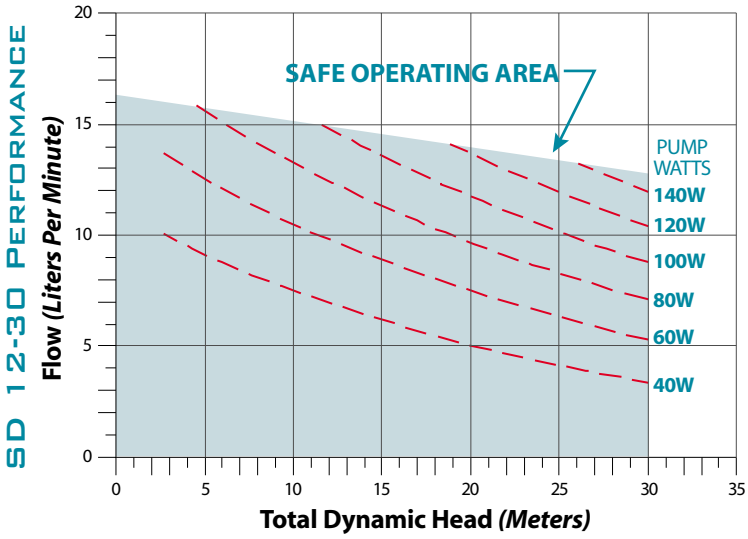
Model SD 12-30
Suitable for installation in 5.0 inch (127.0 mm) minimum inside diameter wells. The addition of a sand shroud requires installation in 6.0 inch (152.0 mm) minimum inside diameter wells. Flow rates up to 4.5 GPM (17.0 LPM) and heads up to 100 feet (30.0 meters).
Dimensions (Outside Diameter, Length, Weight):
4.62 in. (117.35 mm), 10.75 in. (273.0 mm), 23.4 lbs. (10.6 kg)

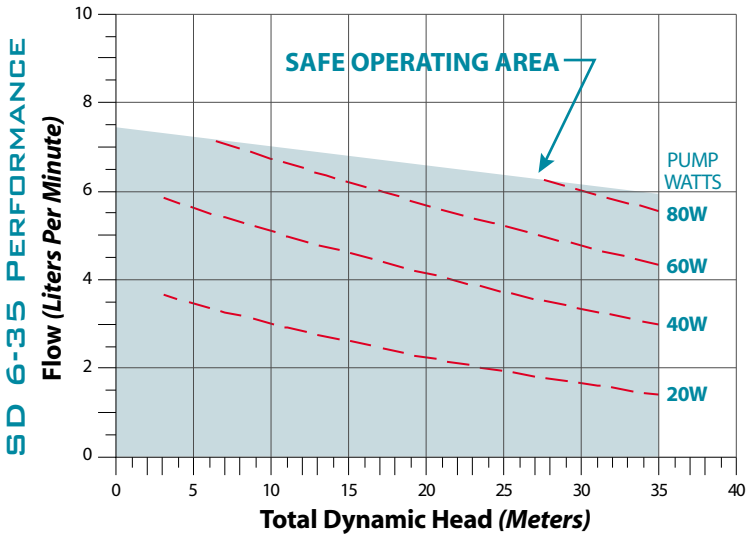
Kyocera Solar Water Pumping Systems and Components are Manufactured by Kyocera Solar, Inc.

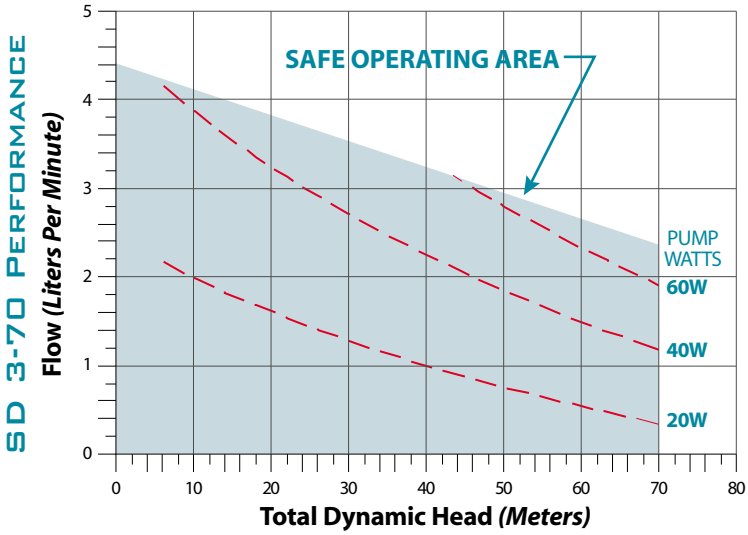
KYOCERA

KYOCERA SOLAR, INC.

SD Series Pump Performance







Conversion Formulas:

Gallons per Minute = Liters per Minute/3.79

Feet=Meters/3.28

SD 12-30 Specifications

Maximum Pump Voltage: **30 Volts**
Maximum Total Dynamic Head: **30 Meters (100 Feet)**
Output Connection: **3/4" NPT or 3/4" Hose Barb**

SD 6-35 Specifications

Maximum Pump Voltage: **30 Volts**
Maximum Total Dynamic Head: **35 Meters (115 Feet)**
Output Connection: **1/2" NPT or 1/2" Hose Barb**

SD 3-70 Specifications

Maximum Pump Voltage: **30 Volts**
Maximum Total Dynamic Head: **70 Meters (230 Feet)**
Output Connection: **1/2" NPT or 1/2" Hose Barb**

To do an approximate sizing for your pump system:

1. Select the best Kyocera SD pump for your needs, based on depth of well and amount of water required
2. Find intersection of head and flow on performance chart
3. Estimate pump wattage, or use next highest pump wattage curve on chart
4. Multiply pump watts from curve by 1.33 to find solar watts
5. Select the best single solar module*, or use two modules in series to reach solar watts

Note: Actual liters pumped will depend on actual sun hours at installation site. Increasing the array amperage will extend morning/evening run times. Optimum performance based on full sun at site.

**Single module use only possible when using the Kyocera CD 300 Pump Controller. Total solar array VOC must not exceed 43 volts at 25°C.*

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