

PS600

"The World's Most Economical Solar Pump"

LORENTZ



RELIABLE AND MAINTENANCE-FREE

PS600 eliminates the weakest links in solar pumping by using helical rotor (progressive cavity) and centrifugal pump ends and a brushless and water-filled motor.

No failure-prone diaphragms, no flooded-motor failures and no electronics in the well !

- Lift from as deep as 600 ft (230 m)
- Maximum 20,000 gallons per day (100 m³)
- PS600 eliminates the costs of fuel, delivery, engine maintenance, and pollution.
- In many cases it COSTS LESS than a conventional pump and generator installation
- Great reliability and life expectancy
- High resistance to sand and corrosion
- Fits 4" and larger well casings
- Wide voltage range for 48 to 72V systems (4-6 solar modules in series) Only one controller for solar direct or battery systems

>> DEEP WELL APPLICATIONS

The pump can be submersed as deep as necessary. Submersion depth does not affect the performance or place additional stress on the pump or motor.

>> SURFACE WATER APPLICATIONS

The pump can be installed in a stream, pond, tank or shallow well, in any position.

>> DRY RUN PROTECTION

An optional low water probe turns pump off to prevent dry-run damage. Reset is automatic after 20 minutes. The PS600 Controller has an RPM limit adjustment to reduce the maximum flow rate to about 50 %, to help match a limited water source.

>> SAND AND SILT TOLERANCE

The pump has high resistance to wear from sand, clay, etc. that may occur in a properly constructed water well. However, a concentration of solids greater than 2 % (by volume) may cause blockage in the pump or the drop pipe, especially at low flow rates. Do not use the pump to clean out a dirty well.

>> CONTROLLER

MPPT, well probe and float-remote switch terminals
Lights indicate: system on, pump on, pump speed, tank full, water source low, overload, and battery low. Protected against reverse polarity, overload and high temperature.

>> BATTERY SYSTEMS

LOW-VOLTAGE DISCONNECT prevents battery damage from over-discharge. This feature is included in the controller.
Disconnect - Reconnect 44V-52V

>> STORAGE REQUIREMENT

A storage tank (not included) should be sized to supply a minimum of 5-10 days' water supply, depending on climate and application. Water storage is generally more economical than energy storage in batteries.

>> DROP PIPE

1" NPT pump outlet on 07, 04, 04H and 03H. 1 1/4" NPT on 20 and 14.
If water is dirty, consider a smaller size drop pipe to increase the flow velocity. This helps exhaust solid particles and prevent accumulation in the pipe. When considering reduced pipe size, consult a pipe sizing (friction loss) chart. Pipe can be of any standard material, rigid or flexible. A torque arrestor is NOT required.

>> PUMP CABLE and SPLICE

Standard submersible cable, 3-wire + ground (total 4 wires). Connection to the pump is made using industry-standard splicing methods.

>> DIMENSIONS & WEIGHTS

PUMP & MOTOR

- Diameter: 3.78" (96 mm)
- Height: 20" - 32" (500-800 mm) depending on model
- Weight: 25 lbs (11.5 kg) or less, depending on model

CONTROLLER

- Controller: 17" x 7" x 6" (425 x 175 x 150 mm)
- 3 conduit holes: 1/2", 3/4", and 1 1/4" KO
- Weight: 11 lbs (4.8 kg)
- Enclosure: gasket-sealed, weatherproof

>> WETTED MATERIALS

316 stainless steel, chromium, NBR rubber, natural rubber, POM, polyurethane (cable)

>> TEMPERATURE LIMITS

- Pump: Specify Temperature Class on order
 - Class 1 46° F to 72° F
 - Class 2 64° F to 90° F
 - Class 3 82° F to 104° F
- Controller: Ambient -22° to 131° F (-30° C to 55° C)



>> NEED MORE WATER ?

Consider the PS1200 system. This systems use more power, to pump as high as 750 ft (230m) and as much as 25,000 gallons per day.

>> INSTALLATION

Install the pump by the same methods and materials used for conventional submersible pumps. The PS600 instruction manual is clearly illustrated. No special product training is required.

>> OPTIONAL EQUIPMENT:

Low-water probe
4 wire submersible cable splice kit, 3 wire + ground
Disconnect and Junction box

>> TWO YEAR MANUFACTURER'S WARRANTY

against defects in materials and workmanship.

PS600 SIZING TABLE for Solar Direct Systems

Ver: 05/01/10

Fixed and single axis tracked Systems



| VERTICAL LIFT | 16 Feet 5m | | 33 Feet 10m | | 50 Feet 15m | | 65 Feet 20m | | 100 Feet 30m | | 133 Feet 40m | | 165 Feet 50m | | 200 Feet 60m | | 230 Feet 70m | |
|---------------|------------|---------|-------------|---------|-------------|---------|-------------|---------|--------------|---------|--------------|---------|--------------|---------|--------------|---------|--------------|---------|
| | Fixed | Tracked | Fixed | Tracked | Fixed | Tracked | Fixed | Tracked | Fixed | Tracked | Fixed | Tracked | Fixed | Tracked | Fixed | Tracked | Fixed | Tracked |

US Gallons x 1000 / day

| | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------|------|-------|------|------|------|------|------|-------|------|------|------|------|------|-------|------|------|------|------|
| PEAK | 7.5 | 9.25 | 13.21 | 5.00 | 7.13 | 5.00 | 6.87 | 3.96 | 5.71 | 1.98 | 2.51 | 1.64 | 2.30 | 1.59 | 2.09 | 1.24 | 1.80 | 1.00 | 1.40 |
| SUN | 6.0 | 7.93 | 11.10 | 4.09 | 5.71 | 3.95 | 5.41 | 2.91 | 4.11 | 1.65 | 2.16 | 1.42 | 1.95 | 1.26 | 1.67 | 0.99 | 1.40 | 0.80 | 1.10 |
| hours/day | 4.5 | 6.60 | 8.98 | 3.17 | 4.28 | 2.90 | 3.94 | 1.85 | 2.50 | 1.32 | 1.80 | 1.19 | 1.59 | 0.92 | 1.24 | 0.74 | 1.00 | 0.60 | 0.80 |
| 300 Wp | C-BF-04 | | HR-14 | | | | | | HR-04 | | | | | | HR-03 | | | | |
| GPM | 21.0 | | 12.3 | | 10.6 | | 9.5 | | 3.6 | | 3.5 | | 3.3 | | 2.9 | | 1.8 | | |
| Wire size / max. length | #10 / 150ft | | | | | | | | | | | | | | | | | | |

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|-------------------------|-------------|------|-------|-----|------|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| PEAK | 7.5 | 11.1 | 16.1 | 5.8 | 7.9 | 6.0 | 7.7 | 4.7 | 6.9 | 3.7 | 5.3 | 1.8 | 2.3 | 1.6 | 2.2 | 1.5 | 2.1 | 1.3 | 1.8 |
| SUN | 6.0 | 9.8 | 14.0 | 5.0 | 6.9 | 4.8 | 6.3 | 4.0 | 5.2 | 2.6 | 3.7 | 1.7 | 2.2 | 1.5 | 2.0 | 1.3 | 1.8 | 1.1 | 1.5 |
| hours/day | 4.5 | 8.5 | 11.6 | 4.2 | 5.8 | 3.7 | 5.0 | 2.6 | 3.6 | 1.6 | 2.1 | 1.6 | 2.1 | 1.2 | 1.6 | 1.1 | 1.5 | 0.9 | 1.3 |
| 350 Wp | C-BF-04 | | HR-14 | | | | | | HR-04 | | | | | | | | | | |
| GPM | 21.0 | | 12.3 | | 10.6 | | 9.5 | | 7.9 | | 3.5 | | 3.3 | | 2.9 | | 2.6 | | |
| Wire size / max. length | #10 / 150ft | | | | | | | | | | | | | | | | | | |

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|-------------------------|-------------|------|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|
| PEAK | 7.5 | 12.4 | 18.0 | 6.9 | 8.3 | 6.3 | 8.0 | 5.3 | 7.7 | 4.2 | 6.1 | 2.3 | 3.3 | 1.8 | 2.3 | 1.6 | 2.2 | 1.5 | 2.0 |
| SUN | 6.0 | 11.0 | 15.5 | 5.8 | 7.1 | 5.2 | 6.7 | 4.5 | 6.3 | 3.2 | 4.5 | 2.0 | 2.8 | 1.6 | 2.1 | 1.4 | 1.9 | 1.3 | 1.7 |
| hours/day | 4.5 | 9.5 | 13.0 | 4.6 | 6.2 | 4.0 | 5.4 | 3.7 | 5.0 | 2.1 | 2.9 | 1.7 | 2.3 | 1.3 | 1.9 | 1.2 | 1.6 | 1.1 | 1.4 |
| 420 Wp | C-BF-04 | | HR-14 | | | | | | HR-07 | | HR-04 | | | | | | | | |
| GPM | 23.0 | | 11.4 | | 11.0 | | 10.0 | | 9.0 | | 5.3 | | 3.4 | | 3.0 | | 2.7 | | |
| Wire size / max. length | #10 / 150ft | | | | | | | | | | | | | | | | | | |

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|-------------------------|-------------|------|-------|-----|------|-----|-------|-----|-----|-----|-------|-----|-----|-----|--------------------------|-----|-------|-----|-----|
| PEAK | 7.5 | 13.7 | 20.0 | 7.9 | 10.0 | 7.1 | 9.2 | 5.8 | 8.0 | 4.8 | 6.9 | 3.7 | 4.2 | 2.9 | 4.1 | 2.3 | 3.3 | 1.6 | 2.3 |
| SUN | 6.0 | 12.2 | 17.2 | 6.5 | 8.5 | 5.8 | 7.7 | 5.0 | 7.1 | 4.0 | 4.9 | 2.6 | 3.7 | 2.3 | 3.2 | 1.9 | 2.6 | 1.5 | 2.0 |
| hours/day | 4.5 | 10.6 | 14.5 | 5.0 | 6.9 | 4.2 | 5.8 | 4.0 | 5.6 | 3.2 | 4.2 | 1.9 | 2.5 | 1.5 | 2.0 | 1.3 | 1.7 | 1.2 | 1.6 |
| 480 Wp | C-BF-04 | | HR-20 | | | | HR-14 | | | | HR-07 | | | | use HR-04 with #10/280ft | | HR-04 | | |
| GPM | 25.0 | | 15.0 | | 14.5 | | 11.1 | | 9.5 | | 7.4 | | 5.3 | | 5.0 | | 3.4 | | |
| Wire size / max. length | #10 / 130ft | | | | | | | | | | | | | | | | | | |

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|-------------------------|------------|------|-------|------|------|-----|-------|-----|------|-----|-------|-----|------|-----|-----|-----|-----|-----|-----|
| PEAK | 7.5 | 17.0 | 24.5 | 11.6 | 17.0 | 8.4 | 10.3 | 7.0 | 8.0 | 5.7 | 7.6 | 4.5 | 6.5 | 3.6 | 5.0 | 2.6 | 3.8 | 2.3 | 3.3 |
| SUN | 6.0 | 14.8 | 21.0 | 9.5 | 13.5 | 7.1 | 9.1 | 6.0 | 7.5 | 4.7 | 6.3 | 3.6 | 5.0 | 2.8 | 3.8 | 2.3 | 3.2 | 1.9 | 2.8 |
| hours/day | 4.5 | 12.7 | 17.4 | 7.4 | 10.0 | 5.8 | 7.9 | 5.0 | 6.6 | 3.7 | 5.0 | 2.6 | 3.6 | 2.1 | 2.6 | 1.9 | 2.5 | 1.6 | 2.3 |
| 660 Wp | C-BF-04 | | HR-20 | | | | HR-14 | | | | HR-07 | | | | | | | | |
| GPM | 30.0 | | 28.0 | | 15.0 | | 11.4 | | 11.0 | | 10.5 | | 10.0 | | 5.3 | | 5.2 | | |
| Wire size / max. length | #10 / 85ft | | | | | | | | | | | | | | | | | | |

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|-------------------------|------------|------|-------|------|------|-----|-------|-----|------|-----|-------|-----|------|-----|-----|-----|-----|-----|-----|
| PEAK | 7.5 | 18.5 | 26.4 | 13.2 | 18.8 | 9.5 | 13.5 | 7.7 | 10.6 | 6.3 | 8.0 | 5.3 | 7.7 | 4.7 | 6.8 | 2.9 | 3.8 | 2.7 | 3.8 |
| SUN | 6.0 | 16.4 | 23.3 | 11.4 | 15.6 | 7.4 | 10.6 | 6.9 | 9.5 | 5.4 | 7.0 | 4.8 | 6.6 | 3.7 | 5.0 | 2.6 | 3.7 | 2.4 | 3.4 |
| hours/day | 4.5 | 14.0 | 20.0 | 9.3 | 12.4 | 5.3 | 7.4 | 6.1 | 8.5 | 4.5 | 6.0 | 4.1 | 5.6 | 2.4 | 3.2 | 2.4 | 3.3 | 2.1 | 2.9 |
| 720 Wp | C-BF-04 | | HR-20 | | | | HR-14 | | | | HR-07 | | | | | | | | |
| GPM | 31.0 | | 29.0 | | 25.0 | | 14.3 | | 11.5 | | 11.4 | | 10.2 | | 5.4 | | 5.3 | | |
| Wire size / max. length | #10 / 85ft | | | | | | | | | | | | | | | | | | |

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|-------------------------|------------|------|---------|------|------|------|-------|-----|------|-----|-------|-----|------|-----|-------|-----|-----|-----|-----|
| PEAK | 7.5 | 20.3 | 29.3 | 14.5 | 21.1 | 10.8 | 15.8 | 8.4 | 10.6 | 7.1 | 10.0 | 5.9 | 8.0 | 5.0 | 7.1 | 2.9 | 3.8 | 2.7 | 3.9 |
| SUN | 6.0 | 18.5 | 26.4 | 13.0 | 18.5 | 9.5 | 13.5 | 7.9 | 10.6 | 6.6 | 9.3 | 5.6 | 7.4 | 4.2 | 6.1 | 2.7 | 3.8 | 2.6 | 3.7 |
| hours/day | 4.5 | 16.6 | 23.3 | 11.4 | 15.6 | 7.9 | 10.8 | 7.4 | 10.0 | 6.1 | 8.2 | 4.8 | 6.3 | 3.4 | 4.8 | 2.5 | 3.5 | 2.4 | 3.4 |
| 840 Wp | C-DF-03 | | C-BF-04 | | | | HR-20 | | | | HR-14 | | | | HR-07 | | | | |
| GPM | 43.0 | | 32.0 | | 29.5 | | 14.5 | | 14.2 | | 11.4 | | 10.3 | | 5.4 | | 5.3 | | |
| Wire size / max. length | #10 / 85ft | | | | | | | | | | | | | | | | | | |

MORE WATER

BERNT LORENTZ GmbH & Co.KG
Hamburg, Germany
www.Lorentz.de

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LORENTZ

System Voltage: 48 -72V
nominal, e.g. 4 to 6 standard
12V modules wired in series.
Voc 150Vmax.

LIFT LIMITS

These systems are selected for optimum performance. To allow unexpected drawdown, each system can handle an additional 15% lift.

HOW DAILY WATER VOLUME IS CALCULATED

Daily volume is calculated by integrating real flow vs. realistic solar (PV) output through the day. (peak sun hours/day = kWh/sq.m/day)

Calculations include a 10% PV output degradation (heat, dirt etc). Cable losses are included at maximum allowable length. The solar array is fixed at tilt angle = latitude of the location. For central USA, seasonal adjustment of the tilt angle increases daily volume by about 8% summer, 5% winter. Flow rates may vary +/- 10%.

Specifications are subject to change. Please use the newest version.

METRIC WIRE

nearest larger equivalent

| AWG | mm ² |
|-----|-----------------|
| #18 | 1 |
| #12 | 4 |
| #10 | 6 |
| #8 | 10 |
| #6 | 16 |

Available From:
SC Solar
146 Rental Court
Rock Hill, SC 29732
Phone: 803-980-4320 Email: erik@scsolar.com

PS600 SIZING TABLE for Solar Direct Systems

Ver: 05/01/10

Fixed and single axis tracked Systems



| 265 Feet 80m | | 300 Feet 90m | | 330 Feet 100m | | 400 Feet 120m | | 460 Feet 140m | | 530 Feet 160m | | 600 Feet 180m | | 660 Feet 200m | | 760 Feet 230m | | VERTICAL LIFT |
|-----------------|---------|-----------------|---------|------------------|---------|------------------|---------|------------------|---------|------------------|---------|------------------|---------|------------------|---------|------------------|---------|------------------|
| Fixed | Tracked | Fixed | Tracked | Fixed | Tracked | Fixed | Tracked | Fixed | Tracked | Fixed | Tracked | Fixed | Tracked | Fixed | Tracked | Fixed | Tracked | |

US Gallons x 1000 per day

| | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|
| 0.85 | 1.25 | 0.70 | 1.10 | 0.65 | 1.00 | 0.60 | 0.90 | 0.50 | 0.72 |
| 0.68 | 0.97 | 0.55 | 0.83 | 0.48 | 0.71 | 0.43 | 0.62 | 0.34 | 0.49 |
| 0.50 | 0.68 | 0.40 | 0.55 | 0.30 | 0.41 | 0.25 | 0.34 | 0.18 | 0.25 |

HR-03

| | | | | |
|-------------|-----|------------|-----|-----|
| 1.7 | 1.6 | 1.5 | 1.4 | 1.3 |
| #10 / 330ft | | #8 / 450ft | | |

| | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|
| 1.00 | 1.35 | 0.90 | 1.32 | 0.85 | 1.24 | 0.79 | 1.14 | 0.71 | 1.06 |
| 0.87 | 1.16 | 0.79 | 1.06 | 0.71 | 1.03 | 0.66 | 0.87 | 0.53 | 0.77 |
| 0.74 | 1.00 | 0.69 | 0.92 | 0.58 | 0.79 | 0.45 | 0.61 | 0.34 | 0.48 |

HR-03

| | | | | |
|-------------|-----|------------|-----|-----|
| 2.2 | 2.0 | 1.9 | 1.8 | 1.7 |
| #10 / 330ft | | #8 / 450ft | | |

| | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1.24 | 1.82 | 1.19 | 1.42 | 1.06 | 1.32 | 0.98 | 1.32 | 0.79 | 1.11 | 0.61 | 0.85 | 0.45 | 0.63 |
| 1.02 | 1.44 | 0.98 | 1.24 | 0.85 | 1.10 | 0.79 | 1.08 | 0.66 | 0.91 | 0.53 | 0.71 | 0.36 | 0.50 |
| 0.79 | 1.06 | 0.77 | 1.03 | 0.63 | 0.87 | 0.61 | 0.85 | 0.53 | 0.71 | 0.45 | 0.58 | 0.26 | 0.37 |

| HR-04H | HR-03 | | | | HR-03H | | | | |
|-------------|-------|-----|-----|------------|--------|-----|--|------------|--|
| 2.5 | 2.1 | 2.0 | 1.9 | 1.8 | 1.6 | 1.4 | | | |
| #10 / 330ft | | | | #8 / 450ft | | | | #6 / 600ft | |

| | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1.51 | 2.17 | 1.45 | 2.11 | 1.32 | 1.85 | 1.19 | 1.72 | 0.87 | 1.19 | 0.74 | 1.06 | 0.61 | 0.79 |
| 1.27 | 1.77 | 1.16 | 1.72 | 1.00 | 1.40 | 0.90 | 1.27 | 0.79 | 1.06 | 0.63 | 0.87 | 0.50 | 0.66 |
| 1.03 | 1.37 | 0.87 | 1.19 | 0.69 | 0.92 | 0.58 | 0.79 | 0.69 | 0.92 | 0.50 | 0.66 | 0.40 | 0.53 |

| HR-04H | HR-03 | | | | HR-03H | | | | |
|------------|-------|-----|-----|------------|--------|-----|--|------------|--|
| 3.2 | 3.0 | 2.7 | 2.5 | 1.9 | 1.7 | 1.5 | | | |
| #6 / 420ft | | | | #8 / 450ft | | | | #6 / 600ft | |

| | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|
| 2.11 | 3.04 | 1.72 | 2.30 | 1.45 | 2.06 | 1.35 | 1.96 | 1.19 | 1.69 |
| 1.72 | 2.44 | 1.45 | 1.96 | 1.29 | 1.76 | 1.07 | 1.53 | 0.92 | 1.31 |
| 1.32 | 1.85 | 1.19 | 1.59 | 1.14 | 1.45 | 0.79 | 1.11 | 0.66 | 0.92 |

| HR-07 | HR-04H | | | |
|------------|--------|-----|-----|-----|
| 5.0 | 3.4 | 3.3 | 3.2 | 3.1 |
| #8 / 265ft | | | | |

| | | | | | | | | | |
|-----|-----|-----|-----|------|------|------|------|------|------|
| 2.5 | 3.6 | 2.3 | 3.3 | 1.59 | 2.30 | 1.51 | 2.17 | 1.40 | 1.85 |
| 2.2 | 3.0 | 2.0 | 2.8 | 1.53 | 2.11 | 1.32 | 1.80 | 1.16 | 1.59 |
| 1.9 | 2.5 | 1.6 | 2.1 | 1.45 | 1.96 | 1.06 | 1.43 | 0.92 | 1.24 |

| HR-07 | HR-04H | | | |
|------------|--------|-----|-----|-----|
| 5.2 | 5.0 | 3.3 | 3.3 | 3.2 |
| #8 / 300ft | | | | |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 2.6 | 3.7 | 2.5 | 3.6 | 1.8 | 2.0 | 1.7 | 2.0 | 1.59 | 1.98 |
| 2.4 | 3.2 | 2.2 | 3.1 | 1.6 | 1.8 | 1.5 | 1.7 | 1.37 | 1.85 |
| 2.1 | 2.8 | 1.9 | 2.6 | 1.4 | 1.7 | 1.3 | 1.6 | 1.16 | 1.59 |

| HR-07 | HR-04H | | | |
|------------|--------|-----|-----|-----|
| 5.2 | 5.0 | 3.3 | 3.3 | 3.2 |
| #8 / 300ft | | | | |

INSTRUCTIONS
(1) Find the LIFT you require, and read the column below it.

Attention: WIRE SIZING \$\$\$
Especially for Lifts greater 100m / 330ft compare wire sizes with PS1200 system. Due to higher system voltage lots of \$ can be saved on the pump wire

More Lift ?
Choose PS1200 System for greater lift applications and lower cable cost

(2) Find the DAILY VOLUME you require. at 7.5 peak sun hrs/day at 6.0 peak sun hrs/day at 4.5 peak sun hrs/day (For more water, look further down the column.)

(3) Use the PEAK FLOW RATE for pipe sizing.

(4) Wire size / max. length (see below)

Daily solar radiation: 7.5 = moderately dry summer weather

| | |
|-----------------------|-----|
| PEAK | 7.5 |
| SUN | 6.0 |
| hours/day | 4.5 |
| 300 Wp | |
| GPM | |
| Wire size/max. length | |

| | |
|-----------------------|-----|
| PEAK | 7.5 |
| SUN | 6.0 |
| hours/day | 4.5 |
| 350 Wp | |
| GPM | |
| Wire size/max. length | |

| | |
|-----------------------|-----|
| PEAK | 7.5 |
| SUN | 6.0 |
| hours/day | 4.5 |
| 420 Wp | |
| GPM | |
| Wire size/max. length | |

| | |
|-----------------------|-----|
| PEAK | 7.5 |
| SUN | 6.0 |
| hours/day | 4.5 |
| 480 Wp | |
| GPM | |
| Wire size/max. length | |

| | |
|-----------------------|-----|
| PEAK | 7.5 |
| SUN | 6.0 |
| hours/day | 4.5 |
| 660 Wp | |
| GPM | |
| Wire size/max. length | |

| | |
|-----------------------|-----|
| PEAK | 7.5 |
| SUN | 6.0 |
| hours/day | 4.5 |
| 720 Wp | |
| GPM | |
| Wire size/max. length | |

| | |
|-----------------------|-----|
| PEAK | 7.5 |
| SUN | 6.0 |
| hours/day | 4.5 |
| 840 Wp | |
| GPM | |
| Wire size/max. length | |

M O R E W A T E R

Conversions for Flow:

1m³ / 0.003785 = US Gallons
1m³ / 0.004546 = Imp Gallons
LPM / 3.785 = US Gallon per minute
LPM / 4.546 = Imp Gallon per minute

Conversion for Lift / Length:

1m = 3.3ft

WIRE SIZES

Cable layout is calculated to stay within 5% power loss. Select PS1200 system to save \$ on cable !
PUMP CABLE, EXAMPLE: #10 / 250ft = maximum allowable length (controller to pump) for that wire size.

VARIATIONS

GREATER LENGTH: for each 150% increase, the next larger wire size is required.
SHORTER LENGTH: for each 33% decrease, the next smaller wire is allowed.

ARRAY TO CONTROLLER if <20 ft: #10min
CONTROLLER TO LOW-WATER PROBE: #18 min. 2-conductor
CONTROLLER TO FLOAT SWITCH: #18 min. 2-conductor

Battery Systems:

48V choose PS600 system
24-48V choose PS200 system

| Pump Outlet Pipe Size | |
|-----------------------|--------|
| HR-03H, 04H | 1" NPT |
| HR-04, 07 | |
| HR-14, 20 | 1 1/4" |
| C-BF-04 | 1 1/2" |
| C-DF-03 | 2" |

Available From:

SC Solar

146 Rental Court

Rock Hill, SC 29732

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