

KELLN SOLAR 'FAST PUMP' is a continuous duty CENTRIFUGAL Pump operating at 24 Volts ideally suited for watering Livestock from sand-point wells, dugouts and rivers. With over 300 "FAST PUMPS" installed since 1988, this pump has set the standard for livestock watering in Canada, coast to coast. This pump has been evaluated and tested by Alberta Agriculture, Manitoba Water Services Board, Ducks Unlimited Canada and the PFRA. It is the only Solar Centrifugal Pump in the market that has a FULL FIVE YEAR warranty including running dry, freezing excluded.



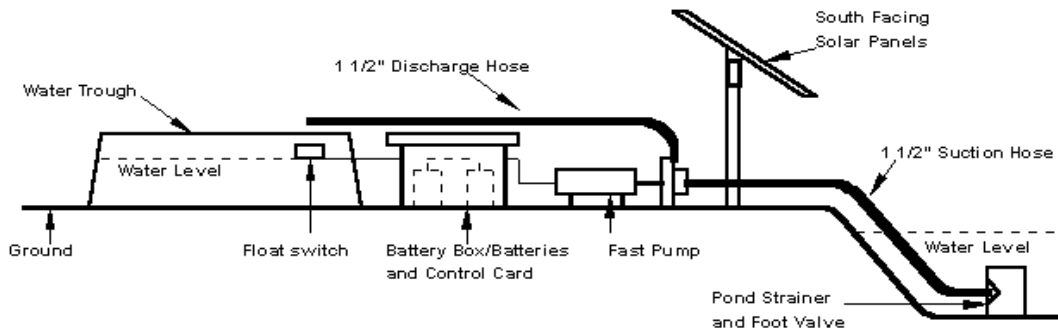
BATTERY OPERATED At 15 feet of lift the Fast Pump will water 180 cow/calf pairs with two 64 watt solar panels operating from two deep cycle RV /Marine batteries, May to October. With 256 watts of solar panels, 4 batteries, at 15 foot of lift Kelln Solar Fast Pump will water 360 cow/calf pairs. At 15 feet of lift Kelln Fast Pump pumps 35 gallons a minute; at 21 feet of lift it will pump 16 gallons a minute.

CONSTRUCTION Kelln Solar Fast Pump is a cast iron, ball bearing pump coupled to a continuous duty ball bearing, permanent magnet, DC motor-mounted on a heavy duty galvanized stand. **DURABILITY** – Alberta Agriculture has 9 years of trouble-free experience with their "FAST PUMP", PFRA Saskatchewan has 8 full years with 6 systems, as well as many farmers and ranchers across Canada.

OPERATION Typically this pump is located near the trough, within 50 feet, with less than 100 feet of suction line, with a filtered Foot-valve installed in the dugout. A float switch is installed in the trough which turns the pump on and off. The Pump, Solar Panels and Float Switch **Must Be Protected From Cattle**.

BATTERY RESERVE Two Group 27 batteries are recommended for 150 cow/calf pairs. Battery reserve is capable of pumping 9000 gallons of water at 15 ft. of lift. Four 6 volt electric vehicle batteries are recommended for 160 to 300 pairs, with battery reserve capable of pumping 20,000 gallons.

System Setup



Pumping Situation

180 C/C Pairs, 15 Ft. Lift, 50 ft. Transfer
Items Included in Price

- 1 – KELLN Fast Pump ½ HP Centrifugal
- 2 – 64 watt Shatterproof Solar Panels
- 1 – Double Panel Stand
- 1 – 50 Ft. Poly Hose
- 1 – Regulator & Low Voltage Disconnect
- 1 – Priming Pump (guzzler)
- 1 – Float switch (30 Relay Operated)
- 1 – Intake Pail c/w Foot Valve, 50 Ft. Rope
- 1 – Wiring Package (Plug-in Ready)
- 1 – Battery Box (Heavy Duty)

Required but NOT Included

- 2 – Batteries, Group 27 Deep Cycle
- 1 – Pole For Panel Stand (2 3/8 O.D.)

Price: \$ 2895.00

(G.S.T & Shipping Extra)

90 C/C Pairs, 15 Ft. Lift, 50 Transfer
Items Included in Price

- 1 – KELLN Fast Pump ½ HP Centrifugal
- 2 – 32 watt Shatterproof Solar Panels
- 1 – Double Panel Stand
- 1 – 50 Ft. Poly Hose
- 1 – Regulator & Low Voltage Disconnect
- 1 – Priming Pump (guzzler)
- 1 – Float switch (30 Relay Operated)
- 1 – Intake Pail, Foot Valve, 50 Ft. Rope
- 1 – Wiring Package (Plug-in Ready)
- 1 – Battery Box (Heavy Duty)

Required but NOT Included

- 2 – Batteries, Group 27 Deep Cycle
- 1 – Pole Panel Stand (2 3/8 O.D.)

Price: \$ 2095.00

(G.S.T & Shipping Extra)