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# SHARADA INVENTIONS

### SOLAR WATER PUMP FOR DOMESTIC APPLICATIONS

**SHARADA INVENTIONS** have introduced the Solar Water Pumps suitable for domestic use, for pumping water from the sump to the overhead tank. Being introduced for the first time in India, these Solar water pumps are easy to install and run and use either a one panel of 12Wp or two panels of 12 Wp. These pumps are available in two models

GC - 10 and GC - 20. GC - 10 is a deep submersible pump with a pumping height upto 10 meters and needs a 12 Wp Solar panel. GC - 20 has a pumping height upto 20 metres and needs two 12Wp Solar panels.

Further details are given below for your kind information.

Both the GC - 10 and GC - 20 Solar pumps are supplied in a kit form. The GC - 10 Solar Pump Kit includes basic pump, pump driver, one water hose pipe and one hang rope. The GC - 20 Solar Pump Kit includes all the above items except the water hose pipe.

The Terms and Conditions of Dealership are as follows :

(1) You may purchase the entire Solar Pumping System - which includes the Solar Pump Kit and the Solar Panel, or purchase the Solar Pump Kit alone. The prices given in the price list does not include the supply of Solar Panel. We can also give you the prices of the entire Solar Water Pumping Systems which will include both the Solar Panel as well as the Solar Pump Kit.

(2) You will have to purchase a minimum of 8 Solar Pump Kits at a time. You may purchase 4 pumps kits of both GC - 10 or GC - 20 at a time.

(3) Sample kits can be purchased at the prices given in the price list.

In addition to the above pump we can also supply you the Solar Water Pumps suitable to pump water from heights upto 200 m. These pumps are suitable for Irrigation and rural water supply schemes. These pumps are manufactured in Germany and have been tried and tested all over the world. Kindly let us have your requirements so that we may submit our detailed quotation for the supply of such pumps. In this case there is no restriction on the ordering quantity. You may even order one pump at a time.

SHARADA INVENTIONS have introduced the Domestic Solar Water pump for the first time in India. This Solar Water Pump, made in Germany has been especially designed for families who need to pump water from the sump to overhead tank. The heart of this system is the Solar operated well pump. The pump is rather small. Furnished with plunger technology, the pump has only a diameter of 5.5 cm and a length of 37 cm. To operate the pump, a small Solar module upto 12 WP is needed. Two models are available. Model GC 10 is a deep-submersible pump with a pumping height up to 10 meters and needs just one 12V 12 Wp Solar panel. Model GC 20 has a pumping height up to 20 meters and needs two 12V 12 Wp Solar panels. Both pumps run with full metal construction automatically for years and are maintenance-free. GC10 and GC20 are not centrifugal or diaphragm pumps and they don't run with DC circle-motor that limit the life expectancy of the conventional pumps. Therefore you do not need to service the motor of this pump. A special driver with cable is already connected to the pump, the water hose is included (not for GC 20). Therefore the installation of the pump needs only a few minutes. As a strong point our Solar well pump runs even in cloudy days. The pump is a low-flow type and is useful for private home sector and can also be combined with a drip-system and is very useful for agriculture and garden irrigation.

Uses only the power of the Sun, no batteries required.

## Performance Table for Models GC - 10 and GC - 20

### Water Quantity in lph (litres / hr )

Full Sunshine some cloud Hazy

Pumping Height	Full Sunshine		some cloud		Hazy	
	GC - 10	GC - 20	GC - 10	GC - 20	GC - 10	GC - 20
3 meters	80 lph	-----	40 lph	-----	25 lph	-----
5 meters	65 lph	106 lph	33 lph	63 lph	19 lph	28 lph
7 meters	50 lph	-----	28 lph	-----	17 lph	-----
10 meters	40 lph	77 lph	18 lph	49 lph	11 lph	23 lph
15 meters	-----	62 lph	-----	37 lph	-----	18 lph
20 metres	-----	44 lph	-----	28 lph	-----	12 lph

**Beautiful combination of Sun and water – the sources of life.**

**Natural intelligence - more sunlight, more water, works even on hazy days**

**Ideal for Domestic Use**

#### **Technical Details of the Pump :**

Model GC - 10 - Supplied with GC - 10 Pump, Driver with cable and water hose pipe and hang rope.

Specifications of GC - 10 pump :

Solar power supply: max 12 Wp, input voltage with load 16.0V

Maximum current:0.8A; minimum current 0.1A

Diameter of pump: 5.2 cm; minimum diameter of well 8.0 cm.

Interior diameter of water hose: 9.0mm, Length of Hang rope : 10 m

Diameter of cable: 9.0mm, length: 22 meters

Operating temperature of the pump: +1.0+50 degree C

Operating temperature of the driver: -10+50 degree C

Diameter of the pump: 5.2cm, length: 36cm, weight: 5.2kg (with cable, water hose and hang rope)

Model GC - 20 - Supplied with GC - 20 Pump, Driver with cable and hang rope.

Specifications of GC - 20 pump.

Solar power supply: max 24 Wp, input voltage with load 32.0V

Maximum current:0.8A; minimum current 0.1A

Diameter of pump: 5.2 cm; minimum diameter of well 8.0 cm.

Interior diameter of water hose: 9.0mm Length of hang rope : 10 m.

Diameter of cable : 9.0mm, length: 22 meters

Operating temperature of the pump: +1.0+50 degree C

Operating temperature of the driver: -10+50 degree C

Diameter of the pump: 5.2cm, length : 36cm, weight: 5.2kg (with cable and hang rope)

(SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE)

**For further details please contact :**

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