



**AARKONIC POWER PVT. LTD.**

*Small Steps, Big Impact - Go Green*



**SOLAR STREET LIGHT**



**SOLAR WATER PUMP**



## **ABOUT US :**

Aarkonic power is one of the leading and fastest-growing company in the solar energy sector. Established in 2024, with the aim of providing the best in class solar solutions, we have come a long way from solar panels solution to providing solution in Solar Water Pump & Solar Street Light.

## **MISSION :**

To deliver the best end to end integrated solar energy solutions. Ensuring Excellence, Integrity and Longevity in our relationship with our stake holders. Encouraging employees to learn and innovate.

## **VISION :**

### **EMPOWERING HUMANKIND WITH SOLAR ENERGY.**

Aarkonic Power, established in 2024 with headquarters at Raipur, welcomes you all to its staggering world of electronic items and solar products.

We are a specialized manufacturer of solar lighting system, solar water pump, solar street lighting system etc. In addition to this, solar power packs etc.

We are committed to offer value for money to our client and partners and be a part of the Go Green initiative

At Aarkonic, we are a group of dedicated & result- oriented professionals having rich experience in the field of LED lighting and Solar Power Generation at various hierarchies in the different departments like Design & Engineering, Marketing & Project execution of Project Light, Solar LED Street Lights and Rooftop systems of different capacities and up to turnkey projects for various reputed concerns.



## SEMI INTEGRATED SOLAR STREET LIGHTS

9W to 40W Range

### PRODUCT INFORMATION :

OPTICS	NA
HOUSING	ALUMINIUM PDC
FRAME COLOUR	BLACK AND GRAY
IP RATING	Ip66
OPERATING TEMP	-40'C to 60'C
INPUT VOLTAGE	12-24V DC
LIFESPAN	50000 HOURS
POWER FACTOR	> 0.95
CCT	2700-6500
CRI	>70
THD	<10%
LED LUMINOUS FLUX	160 lm/W
MECHANICAL IMPACT RESISTANCE	IK08 (BODY & FRAME ONLY)



LED Watt	Battery Capacity 12.8 V LifePO <sub>4</sub>	Recommended Solar Panel
9W	6 Ah	30W / 40W
12W	12 Ah	40W
15W	12 Ah	40W
20W	15 Ah	50/60W
24W	18 Ah	75W
30W	24 Ah	75W
40W	36 Ah	75/100W

# ALL IN ONE SOLAR STREET LIGHTS

9W to 75W Range

## PRODUCT INFORMATION

LED Lumen Output	160 lm/W
Solar Panel	Mono Crystalline
Motion Sensor	NA
Solar Charge Controller Rating	10 A
Dusk to Dawn	Yes
Dimming	Dimming to 1/3 Intensity on Detecting No Movement for More Than 30 Seconds
LED Dispersion Angle	120°
LED Life (TA=25°C)	50000 Hrs.
Color Temperature	2700K - 6500K
CRI	70 - 82
LED Driver Efficiency	> 95 %
Operating Temp.	-40°C to 60°C
Light Backup Time	Full Night With Dimming



LED Watt	Battery Capacity 12.8 V LifePO <sub>4</sub>	Recommended Solar Panel
9W	6 Ah	30W
12W	12 Ah	40W
15W	12 Ah	40W
20W	18 Ah	40W
24W	24 Ah	60W
30W	30 Ah	60W
40W	36 Ah	75/80W
60w	36 Ah	75/80W
75w	36 Ah	100W



## HIGHMAST SOLAR STREET LIGHTS

MODEL	AS-HML-20W	AS-HML-30W
PV Module	75W12V x 4Nos	100W x 4Nos
LED Wattage	20W x 4Nos	30W x 4Nos
LED Chip	OSRAM/CREE/SAMSUNG	OSRAM/CREE/SEOUL
View Angle	120 degree	120 degree
Dimming	PWM Time Enabled	PWM Time Enabled
Color Temperature	5000~6500K (Cool White) / 2700~3500K (Warm White)	5000~6500K (Cool White) / 2700~3500K (Warm White)
Color Rendering Index	> 70	> 70
Life Time	>5Years	>5Years
Battery Capacity 12.8 V Li-Fe P04	20AH x 4Nos	30AH x 4Nos
Battery Life Time/Warranty	4-6years / 2years	4-6years/ 2years
Charge Controller & LED Driver	MPPT/PWM Driver with auto dimming to enhance working time	MPPT/PWM Driver with auto dimming to enhance working time
System Warranty	2years	2years
Circuit Protection	Overcharge, discharge, short circuit, open load, lightning protection	Overcharge, discharge, short circuit, open load, lightning protection
Autonomy	28Hours	28Hours
Working	Dusk to Dawn operation	Dusk to Dawn Operation
GI POLE (Tubular/Octagonal)	7Mtr with base plate & Accessories	9Mtr with Base plate & Accessories



## SOLAR DUAL PUMPS :

The Pumping solution is designed to offer the rural areas, water to use for domestic application. 1 setup will use 700–800 Wp of Solar power to run 1 Hp of submersible pump at depth of 20–70 Mtr. It will discharge 5000, 8000 LPD. It will also have automatic on/off mechanism to avoid water wastage once the tank is filled. The system is a retrofit solution to the existing and pump already installed. Hence it will be a Dual pumping system where people can have water through hand pump at the absence of solar energy.

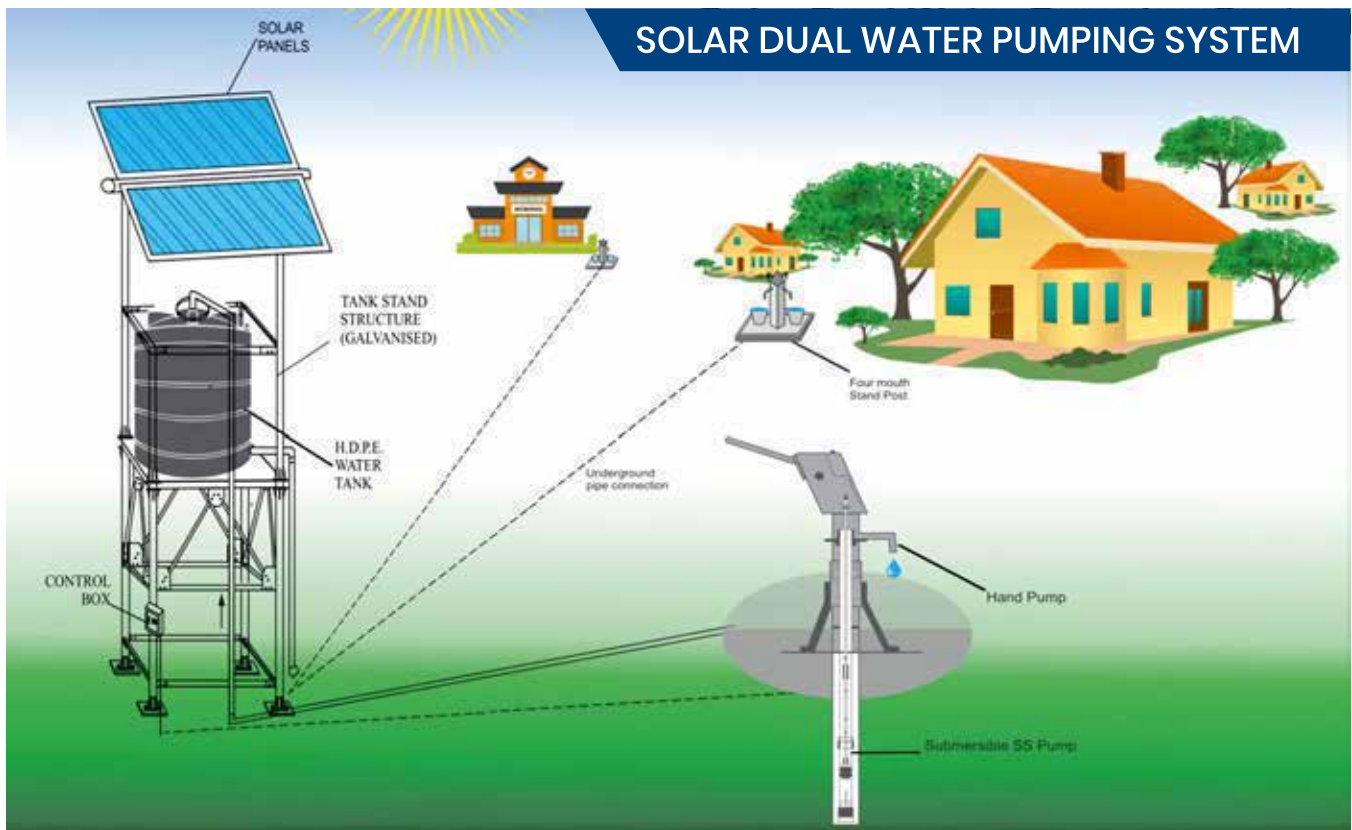


### APPLICATIONS :

1. Community rural water supply.
2. Public water supply for urban areas.
3. School water supply.
4. Institutional water supply in remote areas.
5. Emergency water supply for relief camps.

### ADVANTAGES :

1. Self sustainable, independent water supply scheme.
2. Time savior for women and family.
3. Better health on account of low manual work.
4. Improved personal hygiene & sanitation due to availability of water.

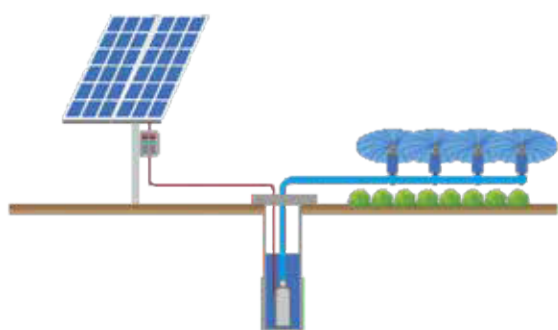


## DC SOLAR SUBMERSIBLE PUMP

### 1.0 to 10 HP SOLAR PUMP

PUMP/RADIAL FLOW /WATER FILLED

RPM	2800
IMPELLER	Noryl
STAGE CASTING	Noryl
PUMP JACKET	SS
PUMP BEARING BUSH	Leaded Bronze
PUMP SHAFT	SS 410
SUCTION BRACKET	Cast Iron
PUMP HARDWARE	SS 304
MOTOR SHAFT	SS 410
MOTOR BEARING BUSH	LTB 5 Grade
THRUST BEARING	SS 410
LOWER & UPPER HOUSING	Cast Iron
STATOR SHELL	SS
WINDING WIRE	Copper
MOTOR HARDWARE	SS 304



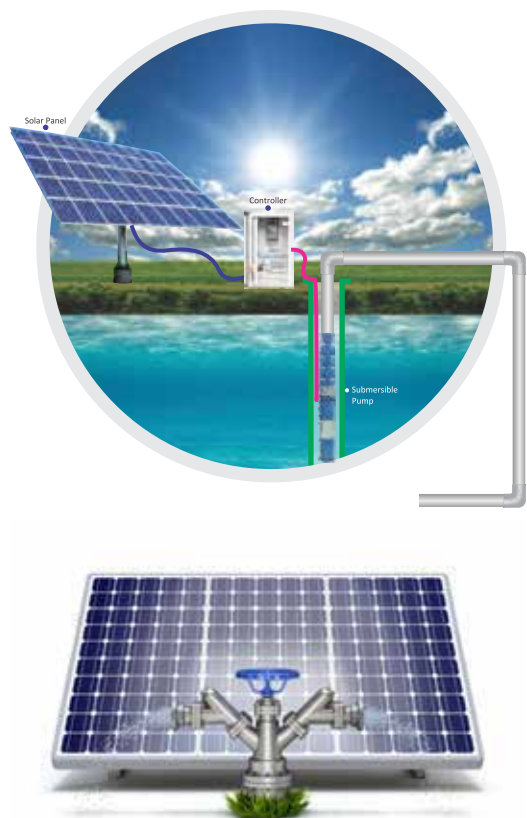
## DC SUBMERSIBLE PUMPS

TECHNICAL DATA	1HP DC	2HP DC	3HP DC	5HP DC	7.5HP DC	10HP DC
Pump Type	Submersible / Borewell, Tubewell, Diggi					
PV Array Size (wp)	1200	1800	3000	4800	6750	9000
Pump Capacity (HP)	1	2	3	5	7.5	10
Total Dynamic Head (m)	30	30	50	50	50	50
Shut off Dynamic Head (m)	45	45	75	70	70	70
Water Discharge (LPD) LPD – Litres per Day	45,600 @ 30m head	68,600 @ 30m head	1, 14,000 @ 30m head	1, 10,400 @ 50m head	1, 55,250 @ 50m head	2, 07, 000 @ 50m head

## AC SOLAR SUBMERSIBLE PUMP

### 1.0 to 10 HP SOLAR PUMP

PUMP/RADIAL FLOW /WATER FILLED



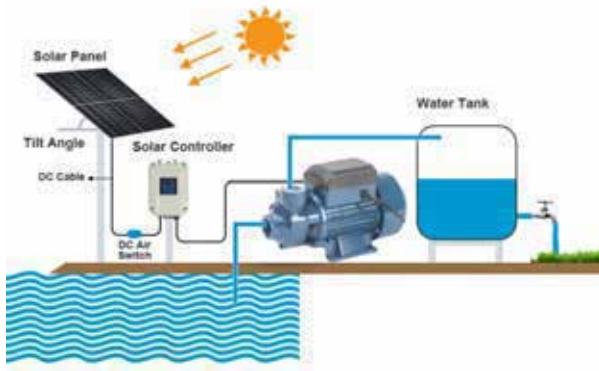
RPM	2800	2800
IMPELLER	Ss410	SS410
PUMP BEARING BUSH	Leaded Bronze	Leaded Bronze
PUMP SHAFT	SS 410	SS 304
SUCTION BRACKET	SS 410	SS 410
PUMP HARDWARE	SS 304	SS 304
MOTOR SHAFT	LTB 5 Grade	LTB 5 Grade
MOTOR BEARING BUSH	SS 410	SS 304
THRUST BEARING	Tilting Bearing	Tilting Bearing
LOWER & UPPER HOUSING	SS 410	SS 410
STATOR SHELL	SS 304	SS 304
WINDING WIRE	Copper	Copper
MOTOR HARDWARE	SS 304	SS 304

## AC SUBMERSIBLE PUMPS

TECHNICAL DATA	1HP DC	2HP DC	3HP DC	5HP DC	7.5HP DC	10HP DC
Pump Type	Submersible / Borewell, Tubewell, Diggi					
PV Array Size (Wp)	1200	1800	3000	4800	6750	9000
Pump Capacity (HP)	1	2	3	5	7.5	10
Total Dynamic Head (m)	30	30	30	50	50	50
Shut off Dynamic Head (m)	45	45	45	70	70	70
Water Discharge (LPD) LPD – Litres per Day	42,000 @ 30m head	63,000 @ 30m head	1,05,000 @ 30m head	1,00,800 @ 50m head	1,41,750 @ 50m head	1,89,000 @ 50m head



## DC SOLAR SURFACE PUMP



### 1.0 to 10 HP SOLAR MONOBLOCK PUMP

#### CENTRIFUGAL SURFACE TYPE

RPM	2800
IMPELLER	Cast Iron FG200
PUMP CASTING	Cast Iron
MECHANICAL SEAL	Rubber
PUMP SHAFT	SS 410
SUCTION BRACKET	Cast Iron
PUMP HARDWARE	SS 410
MOTOR SHAFT	SS 410
MOTOR BEARING BUSH	Ball Bearing
STATOR SHELL	Cast Iron
WINDING WIRE	Copper
MOTOR HARDWARE	SS 304

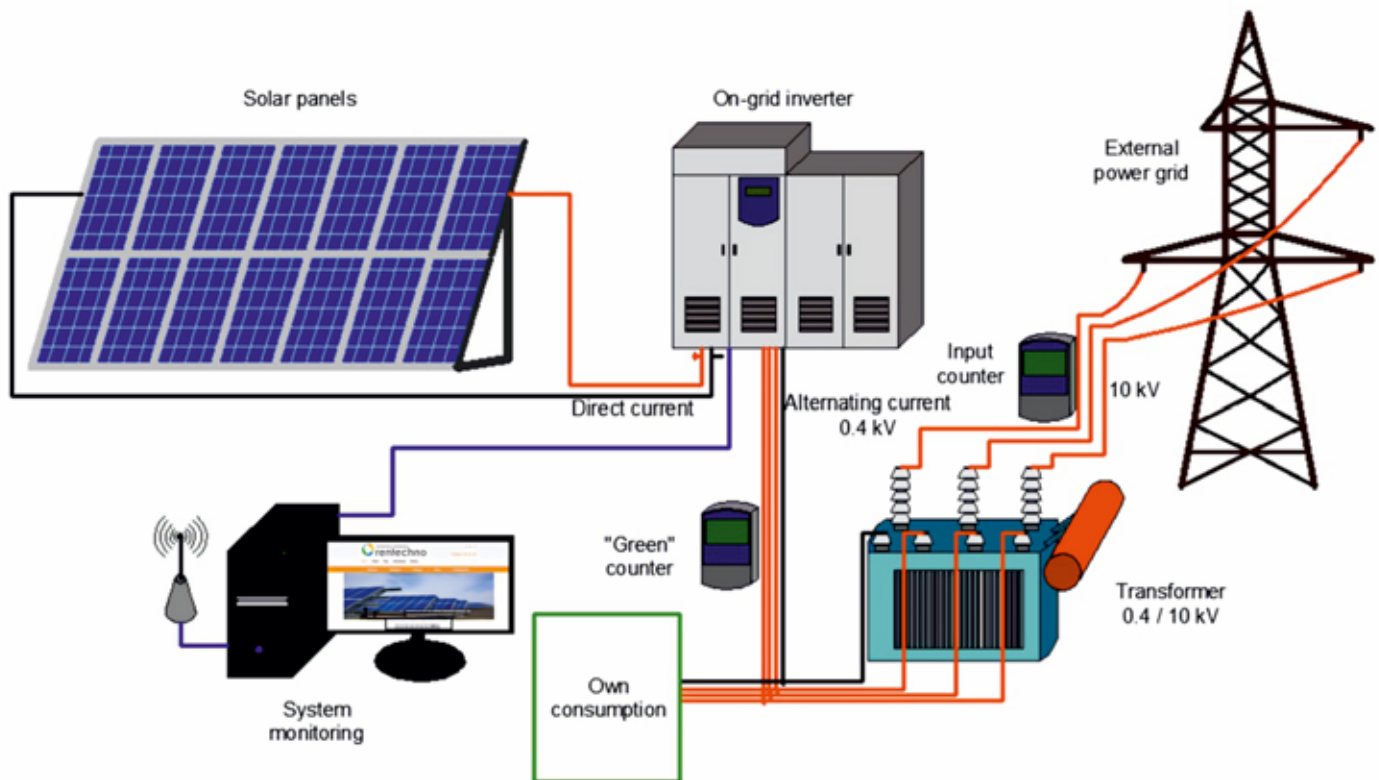
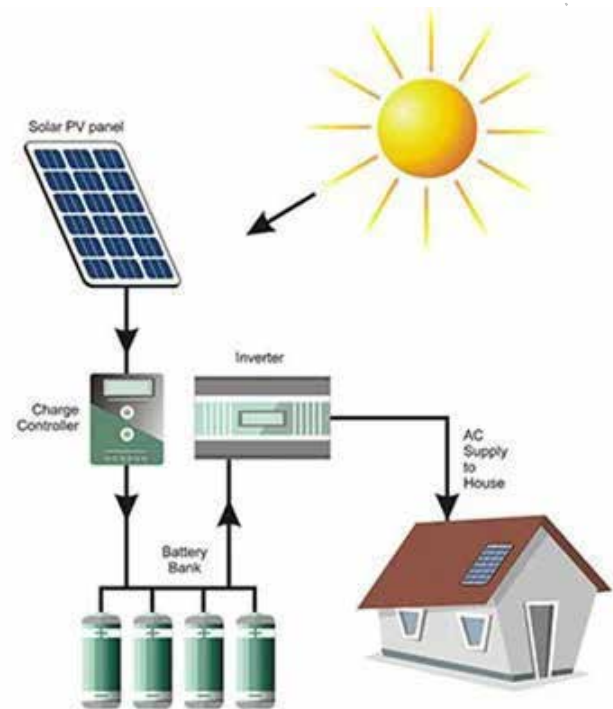
## DC SURFACE PUMPS

TECHNICAL DATA	1HP DC	2HP DC	3HP DC	5HP DC	7.5HP DC	10HP DC
Pump Type	Surface / Shallow water Source					
PV Array Size (wp)	900	1800	2700	4800	6750	9000
Pump Capacity (HP)	1	2	3	5	7.5	10
Total Dynamic Head (m)	10	10	10	10	10	10
Shut off Dynamic Head (m)	12	12	12	12	12	12
Water Discharge (LPD) LPD - Litres per Day	99,000 @ 10m head	1,98,000 @ 10m head	2,97,000 @ 10m head	5, 28,000 @ 10m head	7, 42,000 @ 10m head	9, 90, 000 @ 10m head

# SOLAR POWER PLANT

## SYSTEM DESCRIPTION

1. On-grid Solar Power System/  
Grid Interactive System
2. Off-grid Solar Power  
System / Standalone System
3. Hybrid Solar Power System



## INSTALATION OF AARKONIC POWER : WORK DONE BY US



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