



Lifting **Water**,
Growing **Life**



Hiramrut
Serving Solar Industry Since 1984

SOLAR SUBMERSIBLE PUMPS – BLDC/PMSM

DESCRIPTION :

Uratom Solar Water Pumping Systems is a stand-alone system operating on power generated by Solar Photovoltaic Panels. The power generated by Solar Panels is used for operating Solar Submersible Pumps for lifting water from an open well, water reservoir or tube well for irrigation and drinking water purpose. The system requires a shadow-free area for the installation of the Solar Panels.

The beauty of using photovoltaic (PV) panels and a BLDC solar water pump is you get water delivery when you tend to need it most when the sun is shining full blast! A solar water pumping system is ideal in remote locations where there is uneven or no grid electricity availability.

- Solar BLDC/PMSM Water Filled Submersible Pump
- Use of high grade CRNO stamping for higher efficiency
- Higher 3150 RPM

PRODUCT RANGE :

- V3, V4, V6 (0.25 Hp to 20 Hp) SS Solar Ac/Dc Submersible Pump
- surface (0.5 Hp to 10 Hp) Ac/Dc monoblock pumpset



SCREW TYPE SELF PRIMING MONOBLOCK BLDC/PMSM PUMPSET



DESCRIPTION

Uratom has specially designed Self Priming Monoblock BLDC/PMSM Series for domestic application

- Air cool Self Priming BLDC Monoblock for higher performance with zero maintenance.
- CED coated casting static parts in motor and pump for anti-corrosion.
- CED coated Casing and impellers for Higher Discharge, Smooth Operation & Long life span.
- High grade aluminum alloy board.

SR. No.	HP	Model	Max Head in Mtr.	Max Flow Rate In M ³ / H	Duty Head In Mtr	Duty Flow Rate In M ³ / H	Require Power
1	0.25	SPSDUE02540	50 M	3.36	40 M	1.56	500 WP
2	1.0	SPSDUE1090	100 M	3.9	90 M	1.2	1000 WP

IMPELLER TYPE SELF PRIMING MONOBLOCK BLDC/PMSM PUMPSET



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- High grade aluminum alloy board.

SR. No.	HP	Model	Max Head in Mtr.	Max Flow Rate In M ³ / H	Duty Head In Mtr	Duty Flow Rate In M ³ / H	Require Power
1	0.5	SPDUE0520	25 M	3.72	20 M	1.68	600 WP
2	1.0	SPDUE1030	35 M	3.78	30 M	1.5	1000 WP

TECHNICAL SPECIFICATION

- 9 slot 6 pole Patented design
- HP Range upto 1.0 HP
- Higher 3150 RPM
- Water Filled BLDC/PMSM Motor
- 150 Hz operation

V4-SS DC SOLAR HHLV (HIGH HEAD LOW VOLUME) SCREW PUMPS – BLDC/PMSM

Stainless
Steel Type



DESCRIPTION

Uratom has specially design water-filled 6 pole BLDC/PMSM Stainless Steel submersible motor and Helicul Screw with maximum utilization of solar energy during sunny days, BLDC PMSM motor set has 30% higher energy efficiency then conventional ac submersible pump. V4-SS series is suitable for 4.5" or above bore well dia

- 18 Slot 6 pole Patented design
- V4-SS series is special design with Stainless Steel for longer life
- Use of high grade CRNO stamping for higher efficiency
- Use of NdFeb neodymium magnet with NICKEL and marine grade coating for corrosion free long life
- NEMA motor coupling

TECHNICAL SPECIFICATION

- Water Filled BLDC/PMSM Motor
- Higher 3150 RPM
- HP Range 1 HP & 2 HP
- Head Range 10m to 240m
- Voltage 60V to 150V Range

SR. No.	diameter of motor	HP	Model	Head in Mtr.	Shut Off Head	Flow Rate In LPD	Outlet	Require Power
1	4 inch	1	4SHUE1120	120 M	210 M	9080	1.25"	1000 Wp
2	4 inch	2	4SHUE2240	240 M	350 M	8400	1.25"	2000 Wp

MATERIAL DESCRIPTION

SR. No.	Parts Name	Material
1	Motor Base, Upper Housing & Lower Housing	Stainless Steel
2	Pump N.R.V & Pump Suction	Stainless Steel
3	Helicul Screw	SS 304

V3/V4-SS SOLAR SUBMERSIBLE OIL-FILLED PUMPS – BLDC/PMSM Stainless Steel Type



DESCRIPTION

Uratom has specially design oil-filled 6 pole BLDC/PMSM Stainless Steel submersible motor with noryl rotor centrifugal pump and maximum utilization of solar energy during sunny days, BLDC PMSM motor set has 30% higher energy efficiency then conventional ac submersible pump. V3/V4-SS series is suitable for 3.5"/4.5" or above bore well dia

- 18 Slot 6 pole Patented design
- V3/V4-SS is special design with Stainless Steel for longer life
- Use of high grade CRNO stamping for higher efficiency
- Use of NdFeb neodymium magnet with NICKEL and marine grade coating for corrosion free long life
- NEMA motor coupling

TECHNICAL SPECIFICATION

- Oil Filled BLDC/PMSM Motor
- Higher 3150 RPM
- HP Range 0.5 HP to 3.0 HP
- 150 Hz operation

SR. No.	diameter of motor	HP	Model	Head in Mtr.	Max Head in Mtr.	Max Flow Rate In M ³ / H	Outlet in Inch	Require Power
1	3 inch	0.5	3SSODUE0560	60	90	1.36	1.25"	600 Wp
2	4 inch	0.5	4SSODUE0560	60	90	1.36	1.25"	600 Wp
3	3 inch	1.0	3SSODUE1060	60	90	3.25	1.25"	1000 Wp
4	4 inch	1.0	4SSODUE1060	60	90	3.25	1.25"	1000 Wp
5	4 inch	1.0	4SSODUE1090	90	120	1.97	1.00"	1000 Wp
6	3 inch	2.0	3SSODUE2060	60	90	4.88	1.25"	2000 Wp
7	3 inch	2.0	3SSODUE2090	90	120	2.96	1.25"	2000 Wp
8	3 inch	2.0	3SSODUE20120	120	150	2.44	1.25"	2000 Wp
9	4 inch	2.0	4SSODUE2060	60	90	4.88	1.25"	2000 Wp
10	4 inch	2.0	4SSODUE2090	90	120	2.96	1.25"	2000 Wp
11	4 inch	2.0	4SSODUE20120	120	150	2.44	1.25"	2000 Wp
12	4 inch	3.0	4SSODUE3060	60	90	8.14	2.00"	3000 Wp
13	4 inch	3.0	4SSODUE30100	100	150	4.49	1.25"	3000 Wp
14	4 inch	3.0	4SSODUE30180	180	225	2.78	1.00"	3000 Wp

MATERIAL DESCRIPTION

SR. No.	Parts Name	Material
1	Motor	Stainless Steel
2	Upper Housing & Lower Housing	Stainless Steel
3	Pump N.R.V & Pump Suction	Stainless Steel

V6-SS DC SOLAR SUBMERSIBLE PUMPS – BLDC/PMSM

Stainless
Steel Type



DESCRIPTION

Uratom has specially design water-filled 6 pole BLDC/PMSM Stainless Steel submersible motor and Fabricated Bowl Impeller pump with maximum utilization of solar energy during sunny days, BLDC PMSM motor set has 30% higher energy efficiency then conventional ac submersible pump. V6-SS series is suitable for 6.5" or above bore well dia

- 16 Slot 6 pole Patented design
- V6-SS series is special design with Stainless Steel for longer life
- Use of high grade CRNO stamping for higher efficiency
- Use of NdFeb neodymium magnet with NICKEL and marine grade coating for corrosion free long life
- NEMA motor coupling

TECHNICAL SPECIFICATION

- Water Filled BLDC/PMSM Motor
- Higher 3150 RPM
- HP Range 5 HP to 20 HP
- Head Range 30m to 400m
- Voltage 300V to 600V Range

SR. No.	diameter of motor	HP	Model	Head in Mtr.	Max Head in Mtr.	Max Flow Rate In M ³ / H	Outlet in Inch	Require Power
1	6 inch	5	6SDUE50100	100 M	150 M	7.19	2"	5000 wp
2	6 inch	5	6SDUE50150	150 M	200 M	5.14	1.5"	5000 wp
3	6 inch	5	6SDUE50200	200 M	250 M	3.77	1"	5000 wp
4	6 inch	7.5	6SDUE75100	100 M	150 M	10.12	2"	7500 wp
5	6 inch	7.5	6SDUE75150	150 M	200 M	7.23	1.5"	7500 wp
6	6 inch	7.5	6SDUE75200	200 M	250 M	5.3	1"	7500 wp
7	6 inch	10	6SDUE10100	100 M	150 M	13.5	2.5"	10000 wp
8	6 inch	10	6SDUE10180	180 M	225 M	8.35	1.5"	10000 wp
9	6 inch	10	6SDUE10350	350 M	425 M	3.85	1"	10000 wp
10	6 inch	12.5	6SDUE12150	150 M	200 M	12.05	2"	12500 wp
11	6 inch	12.5	6SDUE12250	250 M	325 M	7.23	1.5"	12500 wp
12	6 inch	12.5	6SDUE12400	400 M	475 M	4.82	1"	12500 wp
13	6 inch	15	6SDUE15150	150 M	200 M	14.46	2.5"	15000 wp
14	6 inch	15	6SDUE15250	250 M	325 M	8.68	2"	15000 wp
15	6 inch	15	6SDUE15400	400 M	475 M	5.78	1.5"	15000 wp
16	6 inch	17.5	6SDUE17150	150 M	200 M	16.87	2.5"	17500 wp
17	6 inch	17.5	6SDUE17250	250 M	325 M	10.12	2"	17500 wp
18	6 inch	17.5	6SDUE17400	400 M	475 M	6.74	1.5"	17500 wp
19	6 inch	20	6SDUE20150	150 M	200 M	19.28	3"	20000 wp
20	6 inch	20	6SDUE20250	250 M	325 M	11.57	2.5"	20000 wp
21	6 inch	20	6SDUE20400	400 M	475 M	7.71	2"	20000 wp

SURFACE MONOBLOCK DC/AC INDUCTION

DESCRIPTION :

Uratom has specially designed Surface Monoblock Induction Series for Open Irrigation Applications.

Suitable for Lake, Sump or canal.

- Air cool Surface BLDC/AC Monoblock for higher performance with zero maintenance.
- CED coated casting static parts in motor and pump for anti-corrosion.
- CED coated Casing and impellers for Higher Discharge, Smooth Operation & Long life span.
- High grade aluminum alloy board.

TECHNICAL SPECIFICATION (DC)

- 4 & 6 pole Unique design
- Water Filled BLDC/PMSM Motor
- 100/150 Hz operation DC Range
- Higher 3150 RPM
- HP Range 0.5 to 10 HP



SR. No.	HP	Model	Head in Mtr.	Max Head in Mtr.	Max Flow Rate In M ³ / H	SUCTION IN INCH	DELIVERY IN INCH	Require Power
1	0.5	SMDUE0510	10	12	8.48	1.5"	1.5"	600 wp
2	1.0	SMDUE1010	10	12	14.14	2.0"	2.0"	1000 wp
3	1.0	SMDUE1020	20	25	7.07	1.5"	1.5"	1000 wp
4	1.0	SMDUE1030	30	40	4.88	1.5"	1.5"	1000 wp
5	2.0	SMDUE2010	10	12	28.28	2.0"	2.0"	2000 wp
6	2.0	SMDUE2020	20	25	14.14	2.0"	2.0"	2000 wp
7	3.0	SMDUE3010	10	12	42.42	3.0"	3.0"	3000 wp
8	3.0	SMDUE3020	20	25	21.21	2.5"	2.0"	3000 wp

SOLAR PUMP CONTROLLER

DESCRIPTION :

- It can work with any pole of motor
- Suitable for AC, BLDC & PMSM motor
- Suitable for polycrystalline and monoperk solar panel
- Also available in AC & DC hybrid model
- HP Range 0.5 HP to 10 HP





OFFICE & FACTORY

URATOM EPOWER PVT. LTD.

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