

Oswal Pumps Ltd.



OSWAL

PUMPS & MOTORS

Solar | Domestic | Agriculture | Industrial

True Partner !

OSSL/OMSL SERIES

AC/DC Solar Stainless Steel Submersible
Bore well Pumps & Monoblock Pumps

Infinite Solar Pumping Energy



Solar Water Pump

www.oswalpumps.com



Introduction

Existence of human life in rural India depends largely on the availability of clean water of people, livestock and crops. Farmers in rural India can only become prosperous if there is availability of clean water for their farms, homes and livestock. In many parts of India there is a shortage of reliable power for homes and irrigation of fields where **OSSL/ OMSL** series of Solar Water Pumping systems can make a remarkable contribution.

The **OSSL/ OMSL** Solar Submersible Pumping system offered by **OSSL/ OMSL** is a state of the art high technology product designed to provided a green and energy efficient solution for a reliable water supply where there is no access of clean water and electricity.

The **OSSL/ OMSL** Solar Water Pumping system comprises of the following equipment.

- Solar Stainless steel submersible bore well pump & Solar Monoblock Pump
- Solar photovoltaic panels with mounting structure
- Automatic **IP 65** controller for solar pump with RMU
- With Joint less Cables and accessories.

Application

- Flood irrigations of small fields
- Drip irrigation for farms
- Cattle watering
- Water supply for small villages, Schools, hospitals and homes.

Features & Benefits

- Highly energy efficient submersible solar water pump with energy efficient inverter duty motor.
- High efficiency solar photovoltaic panels with a service life of minimum 20 years.
- Robust design Galvanized steel mounting structure for long life.
- High technology automatic controller with dynamic MPPT (Maximum Power Point Tracking) control method.
- The controller offers complete protection against under and over voltage and dry run protection for the pump.
- Highly efficient controller with a conversion efficiency of 98%.
- The controller is tropicalized to to operate staisfactorily with an ambient temperature of up 50°C
- Virtually no maintenance cost.
- Environmentally friendly air and noise pollution free solution.

Range of Performance

Maximum Flow : 5 Lakh Ltr./Day
Maximum Head : 150 Meter
Rating : 1HP to 20HP (0.75kW to 15 kW)

Features & Benefits

Ambient Temperature : +50°C
Liquid Temperature Range : 0°C to + 40°C
Water pH : 6.5 - 8
Sand Content : 25 g/m³

Type Keys

OSSL	300	30	32 (AC)	OSSL	3000	30	DC
Type Range	Total PV Module Capacity	Head MTR.	LTR Per Watt	Type Range	Total PV Module Capacity	Head MTR.	Motor Type
OSSL = Solar Stainless Steel				OSSL = Solar Stainless Steel			
Submersible bore	900	30	AC	Submersible bore	900	30	PMSM
well pump series	1200	50		well pump series	1200	50	
	1800	70			1800	70	
OMSL = Solar Monoblock	3000	100		OMSL = Solar Monoblock	3000	100	
Pump Series	4800			Pump Series	4800		
	6750				6750		
	9000				9000		

Minimun Cost of Ownership

Very often investment decision for pumps are based only on the purchase cost of the pump. this initial purchase cost is a fraction of owing and operating a pump over its entire life span. The initial cost for diesel engine driven pumps is just 5% of the total life cycle cost with operation (energy) and maintenance cost contributing to 58% and 10 % respectively.

Solar water pumping systems when compared to diesel engine driven pump sets are much higher in the initial purchase cost but over the life cycle of the solar pumping system they provide significant financial savings in terms of operation (energy) and maintenance costs. Typically when solar pumps are compared with diesel engine pumps they offer a breakeven in costs within 4 to 8 years depending on site conditions, installations cost, and model specification. After the breakeven, the solar pumping systems provide significant cost savings to the owners.

AC Solar Pumpset With Controller

TECHNICAL SPECIFICATION OF SOLAR AC SUBMERSIBLE PUMP (MONO)

MINRE GUIDELINE FOR MONO MODULE FOR AC PUMPSETS

MODEL	HP/K.W	Minimum Bore Size	Motor Joining	NRV SIZE	MAX INPUT POWER	RATED VDC	DUTY HEAD	LPD	LPM	HEAD RANGE		MOTOR RATED VOLTAGE	SHUT OFF HEAD (MTR)	MAX FREQ
OSSL-1800-30-AC	2/1.5	5"	4" X 4"	2"	1800	165	30	63000	147	22	33	120	45	0-60 Hz
OSSL-3000-20-AC	3/2.2	7"	6" X 6"	2"	3000	248	20	147000	343	15	22	180	30	0-60 Hz
OSSL-3000-30-AC	3/2.2	7"	6" X 6"	2"	3000	248	30	105000	245	22	33	180	45	0-60 Hz
OSSL-3000-50-AC	3/2.2	7"	6" X 4"	2"	3000	248	50	63000	147	37	55	180	75	0-60 Hz
OSSL-3000-70-AC	3/2.2	7"	6" X 4"	2"	3000	248	70	42000	98	52	77	180	105	0-60 Hz
OSSL-4800-20-AC	5/3.7	7"	6" X 6"	3"	4800	368	20	235200	548	15	22	270	30	0-60 Hz
OSSL-4800-30-AC	5/3.7	7"	6" X 6"	2.5"	4800	368	30	168000	392	22	33	270	45	0-60 Hz
OSSL-4800-50-AC	5/3.7	7"	6" X 6"	2"	4800	368	50	100800	235	37	55	270	75	0-60 Hz
OSSL-4800-70-AC	5/3.7	7"	6" X 4"	2"	4800	368	70	67200	157	52	77	270	105	0-60 Hz
OSSL-4800-100-AC	5/3.7	7"	6" X 4"	2"	4800	368	100	43200	101	75	110	270	150	0-60 Hz
OSSL-6750-20-AC	7.5/5.5	7"	6" X 6"	3"	6750	535	20	330750	771	15	22	380	30	0-60 Hz
OSSL-6750-30-AC	7.5/5.5	7"	6" X 6"	3"	6750	535	30	236250	551	22	33	380	45	0-60 Hz
OSSL-6750-50-AC	7.5/5.5	7"	6" X 6"	2.5"	6750	535	50	141750	330	37	55	380	75	0-60 Hz
OSSL-6750-70-AC	7.5/5.5	7"	6" X 6"	2.5"	6750	535	70	94500	220	52	77	380	105	0-60 Hz
OSSL-6750-100-AC	7.5/5.5	7"	6" X 4"	2"	6750	535	100	60750	142	75	110	380	150	0-60 Hz
OSSL-9000-20-AC	10/7.5	7"	6" X 8"	4"	9000	700	20	441000	1028	15	22	460	30	0-60 Hz
OSSL-9000-30-AC	10/7.5	7"	6" X 6"	4"	9000	700	30	315000	734	22	33	460	45	0-60 Hz
OSSL-9000-50-AC	10/7.5	7"	6" X 6"	2.5"	9000	700	50	189000	441	37	55	460	75	0-60 Hz
OSSL-9000-70-AC	10/7.5	7"	6" X 6"	2.5"	9000	700	70	126000	294	52	77	460	105	0-60 Hz
OSSL-9000-100-AC	10/7.5	7"	6" X 6"	2.5"	9000	700	100	81000	189	75	110	460	150	0-60 Hz

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DC Solar Pumpset With Controller

TECHNICAL SPECIFICATION OF SOLAR DC SUBMERSIBLE PUMP (MONO)

MNRE GUIDELINE FOR MONO MODULE FOR DC PUMPSETS

MODEL	HP/K.W	Minimum Bore Size	Motor Joining	NRV SIZE	MAX INPUT POWER	RATED VDC	DUTY HEAD	LPD	LPM	HEAD RANGE		MOTOR RATED VOLTAGE	SHUT OFF HEAD (MTR)	MAX FREQ
OSSL-1200-30-DC	1/0.75	5"	4" X 4"	1.5"	1200	120	30	45600	106	22	33	90	45	0-120 Hz
OSSL-1800-30-DC	2/1.5	5"	4" X 4"	2"	1800	165	30	68400	159	22	33	120	45	0-120 Hz
OSSL-3000-20-DC	3/2.2	7"	4" X 6"	2"	3000	248	20	165000	385	15	22	180	30	0-120 Hz
OSSL-3000-30-DC	3/2.2	7"	4" X 6"	2"	3000	248	30	114000	266	22	33	180	45	0-120 Hz
OSSL-3000-50-DC	3/2.2	5"	4" X 4"	2"	3000	248	50	69000	161	37	55	180	75	0-120 Hz
OSSL-3000-70-DC	3/2.2	5"	4" X 4"	2"	3000	248	70	45000	105	52	77	180	105	0-120 Hz
OSSL-4800-20-DC	5/3.7	7"	4" X 6"	3"	4800	368	20	264825	617	15	22	270	30	0-120 Hz
OSSL-4800-30-DC	5/3.7	7"	4" X 6"	2.5"	4800	368	30	182970	427	22	33	270	45	0-120 Hz
OSSL-4800-50-DC	5/3.7	7"	4" X 6"	2"	4800	368	50	110746	258	37	55	270	75	0-120 Hz
OSSL-4800-70-DC	5/3.7	5"	4" X 4"	2"	4800	368	70	72225	168	52	77	270	105	0-120 Hz
OSSL-4800-100-DC	5/3.7	5"	4" X 4"	2"	4800	368	100	50558	118	75	110	270	150	0-120 Hz
OSSL-6750-20-DC	7.5/5.5	7"	4" X 6"	3"	6750	535	20	371800	867	15	22	380	30	0-120 Hz
OSSL-6750-30-DC	7.5/5.5	7"	4" X 6"	3"	6750	535	30	256880	599	22	33	380	45	0-120 Hz
OSSL-6750-50-DC	7.5/5.5	7"	4" X 6"	2.5"	6750	535	50	155480	362	37	55	380	75	0-120 Hz
OSSL-6750-70-DC	7.5/5.5	7"	4" X 6"	2.5"	6750	535	70	101400	236	52	77	380	105	0-120 Hz
OSSL-6750-100-DC	7.5/5.5	5"	4" X 4"	2"	6750	535	100	70980	165	75	110	380	150	0-120 Hz
OSSL-9000-20-DC	10/7.5	7"	4" X 6"	4"	9000	700	20	500225	1166	15	22	460	30	0-120 Hz
OSSL-9000-30-DC	10/7.5	7"	4" X 6"	4"	9000	700	30	345610	806	22	33	460	45	0-120 Hz
OSSL-9000-50-DC	10/7.5	7"	4" X 6"	2.5"	9000	700	50	209185	488	37	55	460	75	0-120 Hz
OSSL-9000-70-DC	10/7.5	7"	4" X 6"	2.5"	9000	700	70	136425	318	52	77	460	105	0-120 Hz
OSSL-9000-100-DC	10/7.5	7"	4" X 6"	2.5"	9000	700	100	95498	223	75	110	460	150	0-120 Hz



AC Surface Pump With Controller

TECHNICAL SPECIFICATION OF SOLAR AC SURFACE PUMP (MONO)

MNRE GUIDELINE FOR MONO MODULE FOR AC PUMPSETS

MODEL	HP/K.W	PUMP SIZE (MM)	MAX INPUT POWER	RATED VAC	DUTY HEAD	LPD	LPM	HEAD RANGE		MOTOR RATED VOLTAGE	SHUT OFF HEAD (MTR)	MAX FREQ
OMSL-1800-10-AC	2/1.5	80 X 65	1800	165	10	178200	415	8	11	120	15	0-120 Hz
OMSL-1800-20-AC	2/1.5	50 X 50	1800	165	20	88200	206	15	22	120	25	0-120 Hz
OMSL-3000-10-AC	3/2.2	80 X 80	2700	206	10	267300	623	8	11	150	15	0-120 Hz
OMSL-3000-20-AC	3/2.2	65 X 50	2700	206	20	132300	308	15	22	150	25	0-120 Hz
OMSL-4800-10-AC	5/3.7	100 X 100	4800	368	10	475200	1108	8	11	270	15	0-120 Hz
OMSL-4800-20-AC	5/3.7	80 X 80	4800	368	20	235200	548	15	22	270	25	0-120 Hz
OMSL-4800-30-AC	5/3.7	65 X 50	4800	368	30	168000	392	22	33	270	45	0-120 Hz
OMSL-6750-10-AC	7.5/5.5	100 X 100	6750	535	10	668250	1558	8	11	380	15	0-120 Hz
OMSL-6750-20-AC	7.5/5.5	80 X 80	6750	535	20	330750	771	15	22	380	25	0-120 Hz
OMSL-9000-10-AC	10/7.5	100 X 100	9000	700	10	891000	2077	8	11	460	15	0-120 Hz
OMSL-9000-20-AC	10/7.5	80 X 80	9000	700	20	441000	1028	15	22	460	25	0-120 Hz



DC Surface Pump With Controller

TECHNICAL SPECIFICATION OF SOLAR DC SURFACE PUMP (MONO)

MINRE GUIDELINE FOR MONO MODULE FOR DC PUMPSETS

MODEL	HP/K.W	PUMP SIZE (MM)	MAX INPUT POWER	RATED VDC	DUTY HEAD	LPD	LPM	HEAD RANGE		MOTOR RATED VOLTAGE	SHUT OFF HEAD (MTR)	MAX FREQ
OMSL-1800-10-DC	2/1.5	80 X 65	1800	165	10	198000	462	8	11	120	15	0-60 Hz
OMSL-1800-20-DC	2/1.5	50 X 50	1800	165	20	99000	231	15	22	120	25	0-60 Hz
OMSL-3000-10-DC	3/2.2	80 X 80	2700	206	10	297000	692	8	11	150	15	0-60 Hz
OMSL-3000-20-DC	3/2.2	65 X 50	2700	206	20	148500	346	15	22	150	25	0-60 Hz
OMSL-4800-10-DC	5/3.7	100 X 100	4800	368	10	528000	1231	8	11	270	15	0-60 Hz
OMSL-4800-20-DC	5/3.7	80 X 80	4800	368	20	264000	615	15	22	270	25	0-60 Hz
OMSL-4800-30-DC	5/3.7	65 X 50	4800	368	30	182400	425	22	33	270	45	0-60 Hz
OMSL-6750-10-DC	7.5/5.5	100 X 100	6750	535	10	742500	1731	8	11	380	15	0-60 Hz
OMSL-6750-20-DC	7.5/5.5	80 X 80	6750	535	20	371250	865	15	22	380	25	0-60 Hz
OMSL-9000-10-DC	10/7.5	100 X 100	9000	700	10	990000	2308	8	11	460	15	0-60 Hz
OMSL-9000-20-DC	10/7.5	80 X 80	9000	700	20	495000	1154	15	22	460	25	0-60 Hz



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