



# C.R.I. SOLAR

***Harnessing  
the power of Sun***





## ABOUT C.R.I.

- C.R.I. ranks high among the world's fastest-growing fluid management solution providers with a wide global presence.
- C.R.I. offers Pumps, Motors, Valves, IoT Drives & Controllers, Pipes, Wires & Cables, Solar Pumps and Controllers.
- The Group has a diversified range of 9,000+ products in its portfolio and it is among a few to manufacture 100 percent stainless steel pumps in the world.
- The company has 21 manufacturing facilities across the globe and also made acquisitions in the U.K. and Italy.
- The R&D division of C.R.I. namely "Fludyn Advanced Technology Centre" is recognized by the Ministry of Science & Technology, Govt. of India.
- C.R.I. is the top exporter in India and the winner of EEP (Engineering Export Promotion Council) award 16 times. The company also won National Energy Conservation (NEC) award for seven times from the Government of India.

**C.R.I. Fluid Systems** products cater to diverse segments such as: Chemical & Process, Power, Water & Waste Water, Oil & Gas, Pharma, Sugar & Distilleries, Paper & Pulp, Marine & Defence, Metal & Mining, Food & Beverage, Petrochemical & Refineries, Solar, Building, HVAC, Fire Fighting, Agriculture & Residential.

## A GLIMPSE OF C.R.I. SOLAR

- Empanelled with Ministry of New and Renewable Energy (MNRE) for On-Grid and Off-Grid Projects.
- Highest solar grading, SP-1A by Credit Analysis & Research Ltd. (CARE) for Solar projects.
- Complete range of products from 1HP to 10HP AC & DC Solar Pump and Controllers as per MNRE specifications.
- Solar Pumpsets are tested through Array Simulator as per MNRE standards.
- Successfully Installed around 40 MW of Solar Pumping Systems.
- Supplied more than 40,000+ MNRE Approved Solar pumpsets through System Integrators for their various projects across India and 14,000+ Solar pumping systems installed across India.
- Having 1000 service centre across India.



## SALIENT FEATURES

- Top notch performance and Highly durable
- Extremely hardwearing water lubricated bearing
- High operating efficiency & low maintenance
- Corrosion-resistant fully Stainless Steel pumps ensures longer life

## SPECIFICATIONS

Submersible Type	100mm to 150mm
Power Range	0.75kW to 7.5kW (1HP to 10HP)
Operating Head	30-150Mtr
Maximum Discharge	3,42,000 LPD
Type of Supply	AC & DC

## PUMPSETS RANGE

AC BOREWELL SUBMERSIBLE	Model	Size of Submersible Pumpset	kW	HP	Stage	Outlet Size in mm	PV Array Capacity (Wp)	Head Range in Metre	Operating Head in Metre	Discharge (LPD)*
	SL02A-S4S-8/2/09	100mm	1.8	2	9	50	1800	30-45	30	66,161
	SL03A-S6S-17/05	150mm	2.2	3	5	65	3000	30-45	30	1,10,250
	SL03A-WC4AS-8/3/15	100mm	2.2	3	15	50	3000	50-70	50	66,150
	SL03A-S4S-8/17-N	100mm	2.2	3	17	50	3000	70-100	70	46,847
	SL05A-S6S-30/04	150mm	3.7	5	4	80	4800	30-45	30	1,76,400
	SL05A-S6S-17/05	150mm	3.7	5	5	65	4800	50-70	50	1,05,840
	SL05A-S6S-14/07	150mm	3.7	5	7	50	4800	70-100	70	70,560
	SL05A-S4S-8/17-6 N	100mm	3.7	5	17	50	4800	100-150	100	45,984
	SL07A-S6S-48/04	150mm	5.5	7.5	4	80/100	6750	30-45	30	2,42,156
	SL07A-S6S-17/05	150mm	5.5	7.5	5	65	6750	50-70	50	1,48,838
	SL07A-S6S-14/08	150mm	5.5	7.5	8	65	6750	70-100	70	99,225
	SL07A-S4S-8/17-6 N	100mm	5.5	7.5	17	50	6750	100-150	100	63,254
	SL10A-S6S-60/04	150mm	7.5	10	4	80/100	9000	30-45	30	3,21,300
	SL10A-S6S-30/05	150mm	7.5	10	5	80	9000	50-70	50	1,98,450
SL10A-S6S-18/07	150mm	7.5	10	7	65	9000	70-100	70	1,32,300	
SL10A-S6S-14/10	150mm	7.5	10	10	50	9000	100-150	100	91,488	

DC BOREWELL SUBMERSIBLE	Model	Size of Submersible Pumpset	kW	HP	Stage	Outlet Size in mm	PV Array Capacity (Wp)	Head Range in Metre	Operating Head in Metre	Discharge (LPD)*
	SL03D-S6S-17/05	100/150mm	2.2	3	5	65	3000	30-50	30	1,19,700
	SL03D-WC4AS-8/3/15	100mm	2.2	3	15	50	3000	50-70	50	72,450
	SL03D-S4S-8/3/12N	100mm	2.2	3	12	50	3000	70-100	70	48,555
	SL05A-S6S-30/04-4	150mm	3.7	5	4	80	4800	30-45	30	1,82,400
	SL05D-S6S-17/05-4	100/150mm	3.7	5	5	65	4800	50-70	50	1,13,160
	SL05D-S6S-14/07-4	150mm	3.7	5	7	50	4800	70-100	70	73,800
	SL05D-S4S-8/17-N	100mm	3.7	5	17	50	4800	100-150	100	55,108
	SL07D-S6S-48/04	150mm	5.5	7.5	4	80/100	6750	30-45	30	2,56,500
	SL07D-S6S-17/05-4	100/150mm	5.5	7.5	5	65	6750	50-70	50	1,59,131
	SL07D-S6S-14/08	150mm	5.5	7.5	8	65	6750	70-100	70	1,03,781
	SL07D-S6S-8/17-N	100mm	5.5	7.5	17	50	6750	100-150	100	70,875
	SL10D-S6S-60/04	150mm	7.5	10	4	80/100	9000	30-45	30	3,42,000
	SL10D-S6S-30/05	150mm	7.5	10	5	80	9000	50-70	50	2,07,050
	SL10D-S6S-18/07	150mm	7.5	10	7	65	9000	70-100	70	1,38,375
SL10D-S6S-14/10	150mm	7.5	10	10	50	9000	100-150	100	94,500	

## PUMPSETS RANGE

AC MONOBLOCK	Models	kW	HP	Max. Suction Lift in Mtr	Outlet Size in mm	PV Array Capacity (Wp)	Head Range in Mtr	Discharge (LPD)*
	SM03A-3-H1	2.2	3	6	65 x 50	3000	20-25	1,75,515
	SM05A-BPH40.1	3.7	5	6	65 x 50	4800	20-25	2,41,489

DC MONOBLOCK	Models	kW	HP	Max. Suction Lift in Mtr	Outlet Size in mm	PV Array Capacity (Wp)	Head Range in Mtr	Discharge (LPD)*
	SM03D-3-H1	2.2	3	6	65 x 50	3000	20-25	1,70,398
	SM05D-BHP40.1	3.7	5	6	65 x 50	4800	20-25	3,04,667

Wp - Watt Peak; LPD - Litre per day; 1HP – 5HP Pumpsets are available in both Water filled and Oil filled motors

\* Water output figures are on a clear sunny day with three times tracking of SPV panel, under the "Average Daily Solar Radiation" condition of 7.15 kWh/sq.m. on the surface of PV array (i.e. coplanar with the PV Modules).

## C.R.I. SOLAR PUMP CONTROLLER

C.R.I. Solar Pump Controller converts the D.C. supply generated from the solar panels into A.C. supply with variable frequency for optimal speed control of the pump by maintaining the V/F Ratio.

With the function of MPPT (Maximum Power Point Tracking), it will regulate the speed of the motor according to irradiation in real time to achieve the maximum power and maximum output of water.

## SALIENT FEATURES

- ◆ Range from 1 HP to 10HP (AC/DC) ◆ LCD Display / IP65 enclosure ◆ MPPT Algorithm ◆ Remote Monitoring System with Fault Monitoring and Online Programming ◆ In-Built Protections - Over Current Fault / Short Circuit Fault / Earth Fault / Reverse Polarity / Surge & Dry run.

## SPECIFICATIONS

Model	CRI V4.0
Power Range	0.75kW to 7.5kW (1HP to 10HP)
Maximum DC Voltage	120 VDC - 750 VDC
Maximum PV Current	10 A - 20 A
Output Voltage	110 V - 380 V (AC/DC)



**C.R.I. SOLAR**

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