



JALSOL

SOLAR WATER PUMP

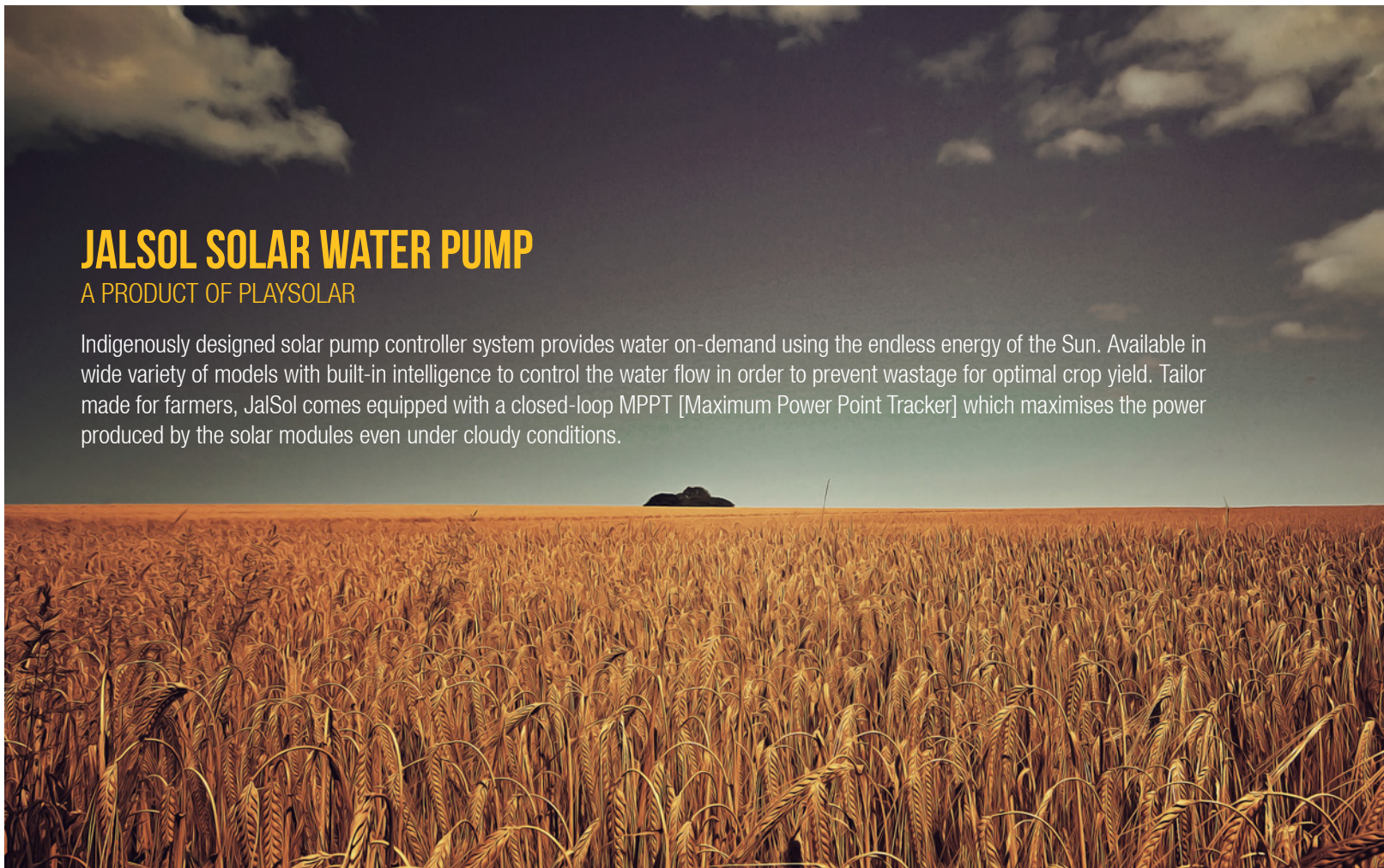


A PRODUCT OF **PLAYSOLAR SYSTEMS PRIVATE LIMITED**

JALSOL SOLAR WATER PUMP

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Indigenously designed solar pump controller system provides water on-demand using the endless energy of the Sun. Available in wide variety of models with built-in intelligence to control the water flow in order to prevent wastage for optimal crop yield. Tailor made for farmers, JalSol comes equipped with a closed-loop MPPT [Maximum Power Point Tracker] which maximises the power produced by the solar modules even under cloudy conditions.



THE FUTURE OF SUSTAINABLE IRRIGATION

Water remains the most important ingredient for successful farming. You may have access to the best seeds or the best fertilizers in the world but without water you cannot grow crops. And to utilize this resource you need a dependable round-the-year supply of power.

PlaySolar's JaiSol, a stand-alone solar powered water pumping system is the ideal solution for successful farming in power starved areas. Solar modules generate DC energy during the day and supply it to JaiSol's controller which in turn supplies it to a DC or an AC pump (see diagram below).



PV MODULES



JALSOL CONTROLLER



**SURFACE AND SUBMERSIBLE
PUMPS**



WATER OUTPUT

MODEL*	MOTOR/POWER (HP) / (KW)	HEAD RANGE (METERS)	INSTALLATION AREA (SQFT)
JS2700	3 / 2.7	10 – 50	13
JS4800	5 / 4.8	10 – 100	24
JS7200	7.5 / 7.2	10 – 150	36
JS9600	10 / 9.2	10 – 150	48

*Used in NABARD installations. For non-subsidy applications contact PlaySolar or its channel partners

FEATURES



LONGER WORKING HOURS

Complete solar water pumping solution with a high wire to water efficiency. Indigenous designed JalSol controller run pumps seamlessly up to 10 hours in every day.



MOST EFFICIENT

Pump control units efficiency is up to 95%, so it will work with minimum number of solar modules. It can pump up to 30% more water when compared to any other system.



VERSATILE SYSTEM

VFD + MPPT for efficient solar water pumping with in-built dry run protection & switch over to utility supply (optional) therefore no pump starters necessary. MOSFET/IGBT MPPT solar battery charger option for different battery chemistries and voltages. Option for feeding (exporting) excess solar power, if grid is available



PUMP PROTECTIONS

IP54 protected enclosure with solar string reverse polarity protection & all other pump related protections with soft start built-in including cavitation and hammer effect protection resulting in longevity of the pumps.



POWERFUL AND ROBUST

JalSol can lift water up to 1000ft of vertical head and can run for much longer distance on horizontal head. JalSol is designed and engineered to last for many years and withstand most hostile weather conditions. Pump can run even on cloudy weather conditions.



SOLAR TRACKERS

Three point Manual (standard) and auto tracking (optional) feature improves water discharge by 20-30% by allowing the array to face the sun from dawn till dusk.





DIAGNOSTICS AND REMOTE MONITORING

Quick fault detection and identification right from PV modules through string pump MPPT inverter.

Customizable data collection time-periods and strong data analysis algorithms for extracting maximum value.

Panel-level monitoring and control granularity to track POA irradiance, Temperature, Degradation (Optional).

Multi-access alarms, history and flexible rule-based alarm/event configuration methods.

Graphical SiteView with system component location indications and status.

Web-based portal and mobile PDA Application with 2 way communication. Enabling remote pump ON/OFF.

Significantly reduce vandalism and panel theft at solar sites through detection and notification mechanisms



RANGE OF SYSTEMS

PUMP		MODULE	TOTAL HEAD	AVG DISCHARGE
HP	Kilowatt	Minimum PV Array (W)	Metres	In Thousand Litres Per Day
1	0.75	1200	30	≥30
2	1.5	1800	30	≥58
3	2.2	3000	30	≥96
		3000	50	≥57
		3000	70	≥39
5	3.7	4800	50	≥92
		4800	70	≥63
		4800	100	≥41
7.5	5.5	6750	50	≥128
		6750	70	≥88
		6750	100	≥58
10	7.5	9000	50	≥171
		9000	70	≥117
		9000	100	≥77
15	11	13500	50	≥237
		13500	70	≥163
		13500	100	≥108
20	15	18000	50	≥316
		18000	70	≥216
		18000	100	≥142



PlaySolar's JalSol water pumps are backed by strong after sales service support and enhanced CRM system for end-to-end tracking.

www.playsolar.in

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DEALER