

Empowering Sustainability, ENERGIZING FUTURE



IOT Enabled IP-65 Solar Pump Controller



AquaLogix
Integrated Water Management

www.desireenergy.com



About Us

We, Desire Energy Solutions Pvt Ltd, is a national award-winning tech-driven water management company, headquartered in Jaipur, with business interests in energy efficiency, renewable energy, engineering, technology, construction, and manufacturing in the public and agriculture water sector.

We are counted among the leading manufacturers of solar pump controllers having an experience of 10+ years and 10000+ solar pumping stations installation in various government schemes such as PM-KUSUM component B, Panghat Yojna and departments such as PHED Rajasthan, GWSSB, Gujarat, and many others.

After years of experience, dedicated work, and collaboration, we are proud to share a product that embodies cutting-edge technology, superior quality, and unmatched functionality. We are thrilled to unveil a groundbreaking innovation that is set to transform the Solar pump controller landscape - introducing SunAquator 2.0!

Vision

Making public water infrastructure smart, efficient and sustainable.

Mission

To provide water management solutions to every nook and corner of India.

Values



TRUST



TRANSPARENCY

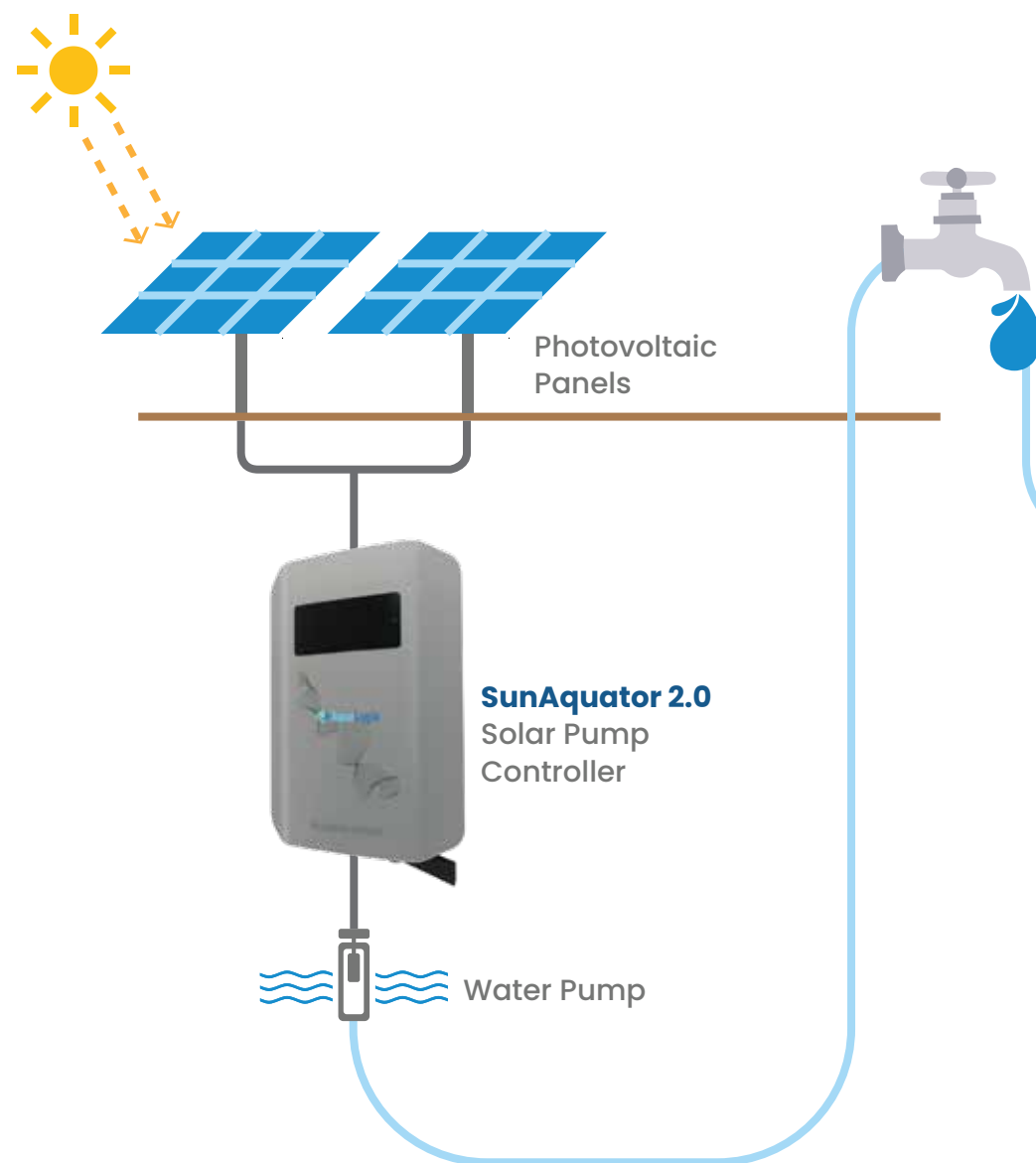


TECHNOLOGY



PARTNERSHIP

SunAquator Applications



Irrigation (45,000)

The Sunaquator Solar Pump Controller is widely used for irrigation systems in areas where electricity is not available providing a sustainable and efficient solution for water management in agriculture.



Ground Water Supply (35,000+)

The Sunaquator Solar Pump Controller is effectively used in groundwater supply systems in various solar DFU and Non-DFU units, offering a sustainable and reliable solution for drinking water supply.



Community Water Supply (35000+)

Solar pumps can be used to provide clean water to entire communities, powering water treatment facilities and distribution networks



SUNAQUATOR

SunAquator 2.0, not a conventional VFD but a PCB based controller, which has the potential to revolutionize the way solar pump controller operates and provide solutions that were previously unimaginable. We invite you to be a part of this exciting journey and experience firsthand the transformational power of SunAquator.



10+
Years of Experience

50,000+
Installations.

Protection
Level:
IP 65



In-built
IoT-enabled RMS,
Compatible with 3G/4G



Easy Plug & Play
User-Friendly Seamless Integration



Biggest Heat Sink
for Longest Life



As per the
MNRE
Guidelines



FOTA

Key Features and Benefits

10+

Years of Experience

50,000+

Installations

As per the
MNRE
Guidelines



Integrated
RMS Module.



Protection level
IP 65.



Full **RMS Support.**



Compact Design with
Plug-and-Play System.



Easy & Quick
SIM Installation.



Supports
SKD Modular Design.



Longer Life compared to
conventional VFD.



Operation through
Mobile App.



24X7 Service Support
through Toll-Free Number.



FRP Body specially
designed for Field
Conditions.



Biggest Heat Sink,
for proper cooling
given Long Life.



Specially Designed for
Solar Pumps to ensure
Maximum Water Production.



Integrated Modem
enabled to Transfer Data
on **Two Parallel Servers**
(client/government).



Shock Proof and
Corrosion Free Body
for Product Life
Longevity.



IoT-Enabled Software and
Mobile Application Support
for Monitoring, Operations,
and Maintenance.

Product Specifications

Communication	MQTT Enabled
Cellular Technology	4G (LTE-FDD 81/83/85/88) (LTE-TD 843/838/839/840/841)
SIM Card Compatibility	1.8V/3V SIM Card
GNSS	GPS Supported
Antenna	High DBi Flexible Sticker Antenna LTE + GPS
Bluetooth	BLE 5.0 Supported
Communication Channel	RS-485
Communication Type	Modbus -Master -RTU
Display	128*64 Backlit Graphical LCD / 16*2 Alpha Numeric Display
Keypad	External Keypad Supported
Communication Protocol with Server	MQTT with Security of TLS/SSL/X.509 Certificate.
Configuration	Via Web Site
Temp	Temp Range 0-85 °C
Boot Time	5 Sec
Voltage Ranges	3HP & 5HP- 100 To 450 VDC & 7HP & 10HP- 300 To 900 VDC
The parameters available on the controller display/ screen	<ol style="list-style-type: none"> 1. Pump On/Off status. 2. Array Input DC Voltage 3. DC/AC output Current & voltage 4. Operating frequency 5. Latest RMS Latitude 6. Latest RMS Longitude 7. Pump Capacity (HP) 8. PV Module Capacity (kW) 9. Pump Status. Current Generation (kW) 10. Today Solar Generation (kWh) 11. Cumulative Solar Generation (kWh) 12. Today Runs Hours (Hrs.) 13. Cumulative Pump Run Hours (Hrs.)

Technical Specifications



KUSUM Solar Motor Pump Set- AC Submersible (Cast Iron & Stainless Steel)

S. No.	Model	Motor	Pump	HP	Stage	Head Mtr	Duty Point Discharge (LPM)
1.	DESPL4M6MFF17	4"	6"	3	5	30	269
2.	DESPL4RFF09	4"	4"	3	13	50	162
3.	DESPL4RFF09	4"	4"	3	17	70	108
4.	DESPL6MFF30	6"	6"	5	4	30	431
5.	DESPL6MFF12	6"	6"	5	8	50	258
6.	DESPL6MFF09	6"	6"	5	11	70	172
7.	DESPL4RFF09	4"	4"	5	25	100	111
8.	DESPL6MFF30	6"	6"	7.5	4	30	606
9.	DESPL6MFF30	6"	6"	7.5	6	50	363
10.	DESPL6MFF12	6"	6"	7.5	12	70	242
11.	DESPL6MFF09	6"	6"	7.5	16	100	156
12.	DESPL6MFF46	6"	6"	10	5	30	808
13.	DESPL6MFF30	6"	6"	10	8	50	458
14.	DESPL6MFF17	6"	6"	10	11	70	323
15.	DESPL6MFF12	6"	6"	10	16	100	208

KUSUM Solar Motor Pump Set- DC Submersible (Cast Iron & Stainless Steel)

S. No.	Model	Motor	Pump	HP	Stage	Head Mtr	Duty Point Discharge (LPM)
1.	DESPL4RFF09	4"	4"	2	6	30	-
2.	DESPL4M6MFF17	4"	6"	3	4	30	292
3.	DESPL4RFF09	4"	4"	3	10	50	177
4.	DESPL4RFF09	4"	4"	3	13	70	115
5.	DESPL4M6MFF30	4"	6"	5	4	50	468
6.	DESPL4M6MFF09	4"	6"	5	7	50	283
7.	DESPL4M6MFF09	4"	6"	5	10	70	185
8.	DESPL4RFF09	4"	4"	5	20	100	129
9.	DESPL4M6MFF30	4"	6"	7.5	4	30	658
10.	DESPL4M6MFF30	4"	6"	7.5	7	50	398
11.	DESPL4M6MFF09	4"	6"	7.5	11	70	260
12.	DESPL4M6MFF09	4"	6"	7.5	13	100	182

Awards & Recognition



Certificates



Clients



Contact Us



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