

WHERE
WATER MEETS
INNOVATION.

ALIF[®]
PUMPS & MOTORS



Fabricated pumps represent the pinnacle of customization and versatility in **fluid handling solutions**. Engineered to meet **specific requirements** and operation conditions, fabricated pumps offer unparalleled benefits



Tailored solutions

: Fabricated pumps are custom-designed to match your exact specifications. whether it's size, material, flow rate, or pressure, these pumps are tailor-made to suit your unique needs.



Superior Durability

: Fabricated pumps are crafted from high-quality materials, including stainless steel, ensuring longevity, corrosion-resistance, and reliability in challenging environments.



Precision flow control

: These pumps can be fine-tuned for precise flow control, making them for applications where accurate fluid management is crucial.



High Efficiency

: Fabricated pumps are engineered for optimal efficiency, minimizing energy consumption & reduced operational costs.



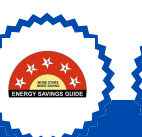
Versatility

: Fabricated pumps are versatile and can be used across various industries and applications, from water treatment plants to chemical processing.



Ease of Maintenance

: Custom designs often include features that simplify maintenance and repairs, minimizing time and maximizing productivity.



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Purpose & Functionality : A solar submersible controller is designed to manage the operation of submersible pumps powered by solar energy. It ensures optimal performance and protection of the pump and the solar power system.



Key Components :

Solar Panels: Capture sunlight and convert it into electrical energy.

Controller Unit: Manages the power from the solar panels and regulates the voltage and current to the submersible pump.

Submersible Pump: Positioned underwater to pump water from wells, boreholes, or other water sources.



Power Management :

Maximum Power Point Tracking (MPPT): Ensures that the solar panels operate at their maximum power output.

Voltage Regulation: Maintains a stable voltage level to protect the pump and ensure efficient operation.



Protection Features :

Overload Protection: Prevents the pump from drawing excessive current, which could cause damage.

Dry Run Protection: Shuts down the pump if no water is detected, preventing damage from running dry.

Overheat Protection: Turns off the pump if the temperature exceeds safe levels.



Benefits :

Environmental Impact: Reduces carbon footprint and reliance on fossil fuels.



Applications :

Agriculture: Irrigation systems for farms and plantations.

Domestic : Water supply for households, especially in rural or remote areas.

Livestock : Providing water for livestock in pastures.



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