

## SOLAR PUMP CONTROLLER

### - TESTED AND APPROVED AS PER MNRE STANDARDS

Ciyes Systems Solar Pump Controller offers a reliable, MNRE-compliant solution for solar-powered agricultural water pumping. Designed for areas with limited grid access, it enables sustainable clean energy solutions for farmers and eco-conscious users.



### Seamless Integration and Efficiency

- Dawn-to-dusk operation with modular design for easy installation
- Best-in-class performance with regulatory compliance
- Optimal energy use through smart management systems

### Remote Management & Data-Driven Insights

- User-friendly mobile app for remote monitoring, reducing on-site maintenance
- Comprehensive data logging with real-time diagnostics and alerts
- Report generation for proactive system management
- Enabled with Web application for Integrators and Mobile application for users



### Versatile Compatibility and Control

- Universal compatibility with various panel and pump set brands
- Supports Induction and PMSM motors
- Flexible control modes: Manual, Automatic, Remote, and Timer

### Advanced Energy Management

- MPPT technology maximizes solar power capture
- Variable speed control optimizes efficiency
- Enables solar water pumping in areas with limited grid access

### Robust Safety Features

- Protection against electrical hazards (over/under voltage, overload, short circuit)
- Dry run and reverse polarity protection
- Compliant with MNRE safety standards for user safety and optimal pump operation

### Durability and Longevity

- IP65-rated for dust and water resistance
- Thermal overload protection and air cooling system
- Predictive maintenance capabilities to prevent potential issues

### Future-Proof Design

- Modular construction allows for scalability and off-grid integration
- Easy component replacement and upgrades for extended product lifespan
- In-house product lifecycle enables efficient implementation of user feedback

### Comprehensive Support System

- Warranty coverage for peace of mind
- Responsive customer support
- Extensive training programs for service engineers, dealers, mechanics, and installation partners

### Environmental Responsibility

- Low-carbon design promotes sustainability
- Efficient power use reduces environmental impact
- Facilitates adoption of solar-powered water pumping solutions

### Applications



## A Diverse Range to Meet Your Specific Needs

Ciyes Systems offers a comprehensive range of Solar Pump Controller variants to perfectly suit your application:

Litres Per Day	Capacity	PV Array (Wp)	Motor Type	Flow as per MNRE Standards (LPD) on duty head			
				30M	50M	70M	100M
	3HP	3000	AC	> 105000	> 63000	> 42000	-
	5HP	4800	AC	-	> 100800	> 67200	> 43200
	7.5HP	6750	AC	-	> 141750	> 94500	> 60750
	10HP	9000	AC	-	> 189000	> 126000	> 81000

	Technical Data	3HP	5HP	7.5HP	10HP
Specification	Min. Input Power (as per MNRE Guideline)	3000Wp	4800Wp	6750Wp	9000Wp
	Max. Input DC Voltage	800Vdc			
	Input Current DC	10A		18.5A	
	Rated Input Voltage	250Vdc	375Vdc	540Vdc	700Vdc
	MPPT Tracking	Yes			
	MPPT Voltage	150Vdc - 290Vdc	300Vdc - 790Vdc		
	MPPT Efficiency	99%			
	Applicable Motor Output Power	2.2kW	3.7kW	5.5kW	7.5kW
	Rated Output Voltage	0-170V	0-260V	0-380V	0-440V
	Frequency	0-50Hz			
	Output Current	13.5A		14.5A	16A
	Operating Temperature	(-10 to 55)°C			
	Enclosure IP Protection	IP65			
	Cooling Method	Forced Air Cooling			
Display	LCD				
Protection	Dry Running	Available			
	Open Circuit	Available			
	Accidental Output Short Circuit	Available			
	Surge Protection to Arrest High Current Surge	Available			
	Over Voltage	Available			
	Low Voltage	Available			
	Reverse Polarity Protection	Available			
Remote Monitoring System	Monitoring System Parameter	Available			
	Data Storage	Available			
	Remote/Manual/Auto/Timer Mode Operations	Available			
	Assert Management	Available			
	Events & Notifications	Available			
	Consumer Management	Available			
	Secured Communication	Available			
	Complaint & Ticket Management	Available			
	Programming Over the Air (POTA)	Available			