

The logo for the Solar Pump Controller, featuring a stylized sun with yellow rays and a blue grid pattern in the center, positioned above the text 'SOLAR' in large, bold, red letters, and 'PUMP CONTROLLER' in smaller, bold, black letters below it.

SOLAR PUMP CONTROLLER



Features:

- High yield, efficiency reaches 99%
- Pure & Clean energy
- Economical and affordable
- Safe and reliable
- Simple operation



Company Profile

Idea is to improve the Quality of Life!

From a modest start in early 2000 we invested lot of time, effort and money solving the customer's problem in the areas of electricity. Today we can't imagine life without electricity. We always strive to offer a solution to our customers which can bring brightness and smiles in their life.

After successfully developing market, customer awareness and establishing a few brands in more than 50 countries and having focus on storage business, We have been also engaged in the areas of Energy storage, Renewable energy, storage products and electrical solution.

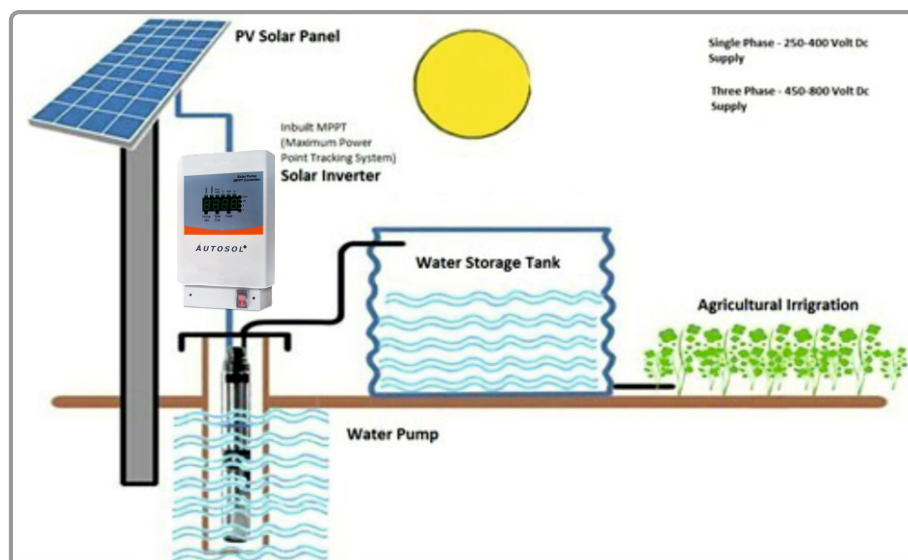
- ✦ Having 2 state of the Art Manufacturing Facility in North and South of India.
- ✦ Inhouse Design team for Motor Fluid Dynamics and Drive Development
- ✦ Total Installed capacities of all the Pump and controllers are more than 100K a year.
- ✦ Leading supplier of Private Label brands from India.
- ✦ IP 54 and IP65 Complied controllers.
- ✦ Products tested by UL Laboratory, SONCAP, NEPCA.
- ✦ Products complied for CE   

Core Strength

Intelenergi Solar Pump Controller is a unique product designed, developed and manufactured in India. This drives makes it possible to run agricultural and industrial motor pump sets using abundant and free solar energy. It supports wide varieties of motor by virtue of its universal design. Its IP64 design and rust proof metallic enclosure provides protection from foreign particles(e.g. rain, dust, oil) which obsoletes the need for extra outer case. Moreover the advanced MPPT algorithm puts it in the list of premium renewable energy products. This product is recommended by experts for its unique features, efficiency, zero operating cost, plug and play installation.

Features:

- Support wide varieties of motors AM, PMSM, BLDC
- Advanced MPPT algorithm
- Dust proof & rain proof design
- Dormancy & wake-up functions
- Plug & Play shock-proof connectors
- Powered with remote monitoring systems
- Graphical LCD for easy operation
- Wide temperature range
- Independent data logging facility
- Built in protection support over-current, over-voltage, phase loss, short circuit, over temperature and protection



Technical Specifications

Solar Pump Inverter Power (kW)	Pump		Maximum Input Power of Solar Panel (kW)	Maximum Input DC Volatge (V)	Total Voc range of recommended Panels(V)	Rated Output Current (A)	Output Frequency Range (Hz)
	Rated Power (KW)	Rated Voltage (V)					
ET21-D1 series: Input 60-400VDC, 3 phase 110V-230VAC Output, suitable for AC 110V pumps							
0.75	0.75	110	1	400	175-380	7A	0-600
1.5	1.5	110	1.95	400	175-380	10A	0-600
ET21-D3 series: Input 150-450VDC, 3 phase 150V-230VAC Output, suitable for AC 220V pumps							
0.75	0.75	220	3	450	360-430	4A	0-600
1.5	1.5	220	3	450	360-430	7A	0-600
2.2	2.2	220	3.3	450	360-430	10A	0-600
4	4	220	6	450	360-430	16A	0-600
ET21-D5 series: Input 250-780VDC, 3 phase 230-460VAC Output, suitable for AC 380V pumps							
0.75	0.75	380	4	800	620-750	2.5A	0-600
1.5	1.5	380	4	800	620-750	4.0A	0-600
2.2	2.2	380	4	800	620-750	6.0A	0-600
4	4	380	6	800	620-750	10A	0-600
5.5	5.5	380	8.5	800	620-750	13A	0-600
7.5	7.5	380	11	800	620-750	17A	0-600
11	11	380	16	800	620-750	25A	0-600
15	15	380	22.5	800	620-750	32A	0-600
18.5	18.5	380	27.7	800	620-750	38A	0-600
22	22	380	33	800	620-750	45A	0-600
30	30	380	45	800	620-750	60A	0-600

Parameters		Specifications
Input Power Supply	Voltage , Frequency	D1 Type: 60-400VDC/1 *110VAC, 50/60Hz D3 Type: 150-450VDC/1 *220VAC, 50/60Hz D5 Type: 250-750VDC/3 *380VAC, 50/60Hz
	Allowable Fluctuations	Voltage Imbalance Rate <3% Frequency Fluctuation: ± 5%
	VFD Efficiency	≥ 96%
	Total Voc range (V) of recommended panels	D1 Type:175-360VDC D3 Type: 360-430VDC D5 Type: 620-750VDC
Output	MPPT efficiency	upto 99.9%
	Output Frequency range	0 -600Hz
	Overload capacity	150% of rated current for 1 minute; 180% of rated curent for 10 seconds; 200% of rated current for 0.5 seconds
Protection Functions	Solar Pump protection function	Dry run, low frequency, low power, dormancy, water full, pump over current protection
	AC/DC switching function	Self indentification light intensity, automatic switching AC& DC power supply
	IOT function	support Intelenergi cloud service, scan code to connect APP Keyboard
	Boost Function	only for D1,D3 models, support built-in Boost function
	Water pump type	Three- phase AC AM pump, three-phase AC PMSM pump, BLDC (5.5 kW or below)
	Basic protection function	Bus over voltage, under voltage, inverter over current , module fault, inverter overload, motor overload, current detectionzero drfit fault, hall fault, E2RCM fault, motor grounding short circuit fault, input phase loss, output phase loss, inverter over heat, communication fault, motor paramter self-tuning fault
	Motor grounding short circuit detection	Automatically detect whether the motor is short-circuit to ground. Auto detection while electrify
Environment	Installation site	Outdoor, altitude less than 1000m, free corrosive gases and direct sunlight
	Temperature, humidity	-10~60° C, 20% to 95% RH (NC)
	Vibration	less than 0.5g when frequency less than 20Hz
	Storage Temperature	-20 ~ 60° C
	Installation mode	Hanging machine
	Ingress Protection	IP65
	Cooling Method	Natural cooling/ forced air cooling



OUR COMPLETE RANGE OF POWER SOLUTIONS



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