



ELCOMPONICS TECHNOLOGIES INDIA PVT. LTD.

An ISO 9001 : 2008 Company



**24 Months
Warranty**

Solar Pump Controller



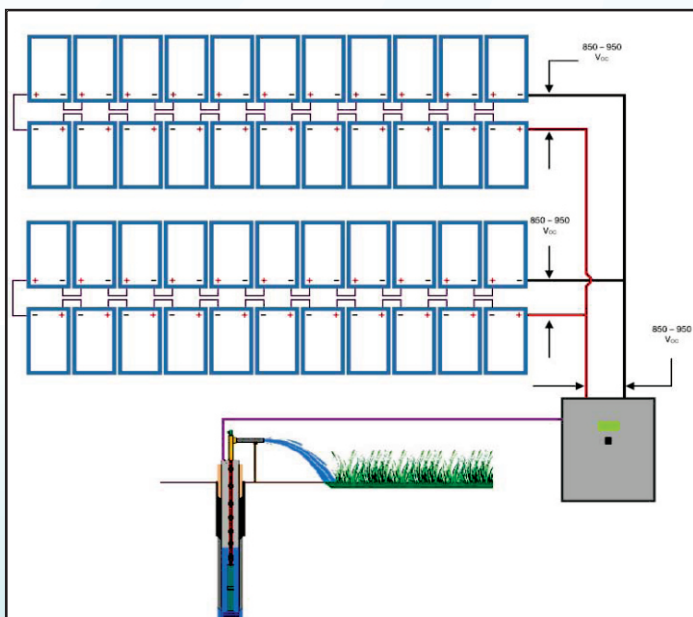
ETIPL's DSP based Three Phase Solar Pump controller with inbuilt MPPT and VFD upto 15 HP.

Model	Neer X ₁₅	Neer X ₅	Neer X ₃	Neer X ₁
Power Rating	6-15 hp	1-5 hp	1-3 hp	1.5 hp
Input Voltage Voc	850-980 VDC	80-150 VDC	70-150 VDC	70-150 VDC
Input Voltage Vmp	700-830 VDC	70-130 VDC	65-130 VDC	65-130 VDC
Output Voltage	250-440 VAC (3-phase)	250-440 VAC (3-phase)	250-440 VAC (3-phase)	250-440 VAC (3-phase)
Frequency	0-80HZ	0-80HZ	0-80HZ	0-80HZ

OTHER KEY FEATURES

- Air cooled (forced convection with fan)
- Product Dimension - 52x42x36cm
- MC4 Connector at DC input
- Suitable for any type of 3- Ph AC pumps/motors
- Optional manual change over to switch between Solar & Grid input on special request
- 5-9 hours continuous working as per sun light availability

SUGGESTED SOLAR INPUT



Motor Power	Solar Panel (in Wp)			
	Depth Upto 100 ft	Depth Upto 250 ft	Depth Upto 400 ft	Depth Upto 500 ft
1 hp	800 W	1000 W	1100 W	1200 W
2 hp	1600 W	2000 W	2200 W	2400 W
3 hp	2400 W	3000 W	3300 W	3600 W
5 hp	4000 W	5000 W	5500 W	6000 W
6 hp	4800 W	6000 W	6600 W	7200 W
7.5 hp	6000 W	7500 W	8250 W	9000 W
10 hp	8000 W	10000 W	11000 W	12000 W
12.5 hp	10000 W	12500 W	13750 W	15000 W
15 hp	12000 W	15000 W	16500 W	18000 W

Due to constant quality improvement at our R&D center, the specification or models may change without prior notice.

Water discharge (%) v/s Time



* Based on average data captured from Open-well /Submersible Installation.

OURS MAIN ADVANTAGES

Longer Working Hours:

Using our controller pumps/motors can work seamlessly up to 8hrs in a day from early morning till late evening .
Designed for Indian Condition.

Most Efficient PCU:

Pump control units efficiency is up to 93.25%, so it will work with minimum number of panel that is 800W/hp.
It can jump up to 30% more water when compared to any other system.

No Limits:

System can lift water up to 1000ft of vertical head and can run for much longer distance on horizontal head.

Highly Versatile PCU:

Any 3-phase motor/pump ranging from 1hp to 15hp can be operated, no need of changing existing installation.

No batteries Needed:

No batteries are required for our system, so no investment or maintenance required for years to come.

All in one system:

PCU is integrated with MPPT, VF and MOSFET/IGBT drives all in one system. So no starters or any other additional devices is required to either start or run the motor.

Designed to Last Longer:

PCU is designed to last for many years and withstand any weather conditions. Motor can run even on cloudy weather conditions.

Most trusted Service:

PCU is Indigenous system. Completely designed, developed and manufactured in India, so servicing is very easy.
Moreover system comes with 2 Years warranty.

Pump Protections:

Frequency of the motor will vary for available current from the panel. So constant torque will be maintained even at lower RPM and no Eddy current will be produced hence no heating of coil in the motor.



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