

Nex-Gen

SOLAR PUMP CONTROLLER

Smart Solar. **Steady Water.**

Smart MPPT **Controller for AC Pumps**

Nex-Gen USPC intelligently converts solar DC power to efficiently run existing AC water pumps without battery dependency. Designed especially for farmers, it optimises solar utilisation through advanced MPPT technology while ensuring smooth motor performance and long-term reliability in rural environments.



Advanced Safety Protection



Intelligent MPPT Control



Soft Start Technology



Works with Existing AC Pumps

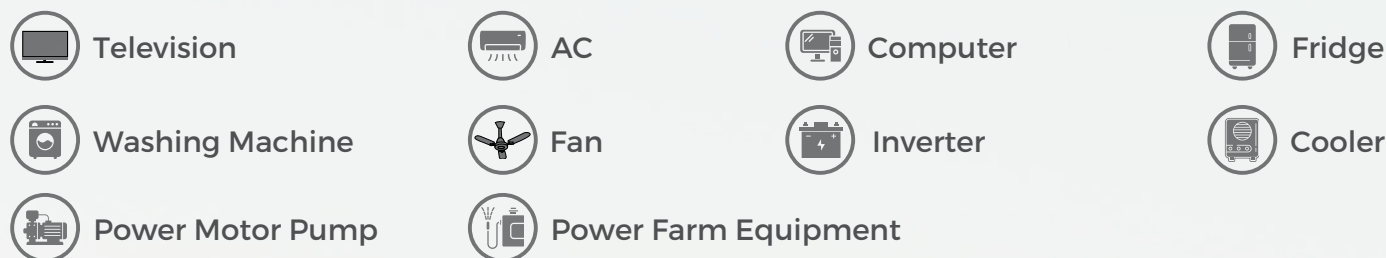


No Grid/ No Diesel Required



Remote Monitoring Options

ENGINEERED FOR MULTIPLE APPLICATIONS



TECHNICAL SPECIFICATIONS

PARAMETERS	3 HP	5 HP	7.5 HP	10 HP	15 HP
PV INPUT					
PV Voltage Range	200-770 VDC	200-770 VDC	200-770 VDC	220-850 VDC	220-850 VDC
Max. PV Current	13 A	13 A	26 A	13 A	13 A
MPPT Range	220-450 VDC	220-650 VDC	220-450 VDC	220-650 VDC	220-750 VDC
Nominal PV Voltage	370 VDC	580 VDC	370 VDC	580 VDC	600 VDC
Number of PV Inputs	1	1	1	1	1
Max. Power	3000 W	5500 W	7500 W	10000 W	9000 W
PV Start Voltage	200 VDC	200 VDC	200 VDC	200 VDC	200 VDC
MOTOR-PUMP OUTPUT					
Voltage Range	0-460 VAC	0-460 VAC	0-460 VAC	0-560 VAC	0-560 VAC
Operating Frequency Range	0-200 Hz	0-200 Hz	0-200 Hz	0-200 Hz	0-200 Hz
Power Factor Range	0.75-1	0.75-1	0.75-1	0.75-1	0.75-1
Peak Efficiency	>96%	>96%	>96%	>96%	>96%
Protection	Short circuit, Dry run, Over temperature, Overload etc				
OFF-GRID APPLICATION OUTPUT (3 Nos)					
Voltage Range	415 VAC ±5%	415 VAC ±5%	415 VAC ±5%	415 VAC ±5%	415 VAC ±5%
Max. Current	5 A	8.5 A	10 A	16 A	18 A
Nominal Frequency	48-60 Hz	48-60 Hz	48-60 Hz	48-60 Hz	48-60 Hz
Operating Frequency Range	0-52 Hz (controlled constant V/f)				
PF Accuracy	>99%	>99%	>99%	>99%	>99%
Peak Efficiency	>93%	>93%	>93%	>95%	>95%
THDv	<3%	<3%	<3%	<3%	<3%
Protection	Output voltage low/high, Over current, Peak torque overload				
DISPLAY & COMMUNICATION					
Display Type	Graphical LCD				
Status Indicator	LEDs				
Serial Communication	RS232 & RS485				
Aux Ports	1 Output port, 2 Digital Port, 2 Analog Port				
Remote Monitoring	Yes (optional)				
WiFi	Yes (optional)				
Operating Temperature	-25°C to 60°C				
Relative Humidity	0-95% RH (No condensing)				
Altitude	1000 m				
IP Degree of Protection	IP65	IP65	IP65	IP65	IP65
Cooling	Air Forced Cooling				

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