



M/s Arsai Solar Solutions

Add:A-79, Badli Extension, New Delhi - 110042
Tel: +91-9810038380, 9811199123 E-mail: tanuj@arsaisolar.com

The solar industry has seen a new light of day in the past decade, with government emphasizing on its extensive use. Capitalizing on the new initiatives and developments, we - Arsai Solar Solutions, has become a solar pump inverter Manufacturer. The product is made using the latest technology and can be selected by clients as per their application requirements.

The Solar Water Pumping System is designed, manufactured and installed by our experts at client's site. This highly functional and long life solar item is offered at inexpensive prices. To suit the client's budget. All the solar items are fabricated in a well equipped manufacturing unit, which forms a crucial part of our work process.

Our organization has set up a sophisticated infrastructure, which includes a head quarter in Badli Extension, New Delhi (India); it aids in executing the business operations properly. We have also developed a branch service center in a prime location of Jaipur for our RHDS project. All the required machines, tools and facilities are updated by us in our premises to ensure their continuous working. Further, team of educated engineers, technicians, supervisors, R&D experts and many more specialized experts carry out our business tasks. For becoming the prime choice of clients for all the solar product's needs, we are even rendering reliable pre and after sales support services. Our professionals install the water heaters at clients' places as per the given specifications. With such a perfect amalgamation of our proficient workforce with infrastructure facilities, we have made record of installing more than 700 solar pump inverters in Rajasthan.

Mission

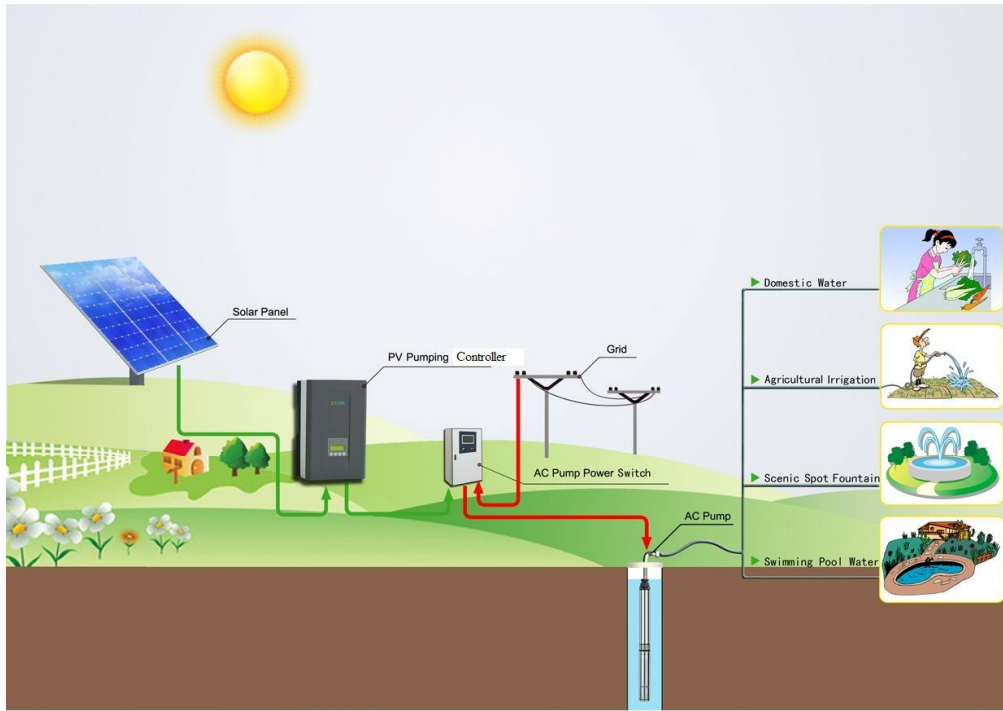
We are working with the mission to provide clean, effective, affordable and sustainable solar energy solution to patrons for meeting their everyday energy needs. Our main focus is on installing solar water pumps / Solar Water Pumping System in rural areas for the purpose of irrigation.

Vision

Our organization has a vision of maximizing the trust of valuable clients by serving them with superior quality products and services at reasonable rates.

PV PUMP CONTROLLER / INVERTER





PV PUMPING SYSTEM INTRODUCTION

PV Pumping System consists of Solar Panel, PV Pumping controller, AC Pump (3-phase) and Storage Device. The Pump is driven by electricity which is generated from PV Panel. The mains will be used as option when PV Panel fails.

It can be applied for domestic water (ground water), agricultural irrigation, forestry irrigation, desert control, pasture animal husbandry, town and city water supply, wastewater treatment engineering, municipal engineering, city center squares, parks, tourist sites, resorts and hotels, the landscapes and fountain systems etc...

The PV Pumping System, fulfills concept of the low carbon, energy conservation, environmental protection, to improve the living standard in water-deficient area.



> Performance >>

- ☉ Use green solar energy, energy conservation, environmental protection and low carbon.
- ☉ Wide operation temperature range and the Max. operation temperature can exceed 60°C.
- ☉ Automatic/manual operation mode.
- ☉ Wide application with all kinds of three-phase AC pumps.
- ☉ Low system maintenance cost compared with traditional AC pump system.
- ☉ The built-in data module with system fault and historical operation information.
- ☉ Different remote communication function which can monitor and control operation state remotely.
- ☉ High protection level for outdoors system and suitable for different application environment under low installation cost.
- ☉ Complete system protection and long lifespan.
- ☉ Matching all kinds of solar panels with high configuration redundancy.
- ☉ Providing different solution, such as anti-theft, WiFi and compatible utility power input etc.

EHE-P 750 L/P1K5L/P2K2L/P3KL/P3K7L/P4KL

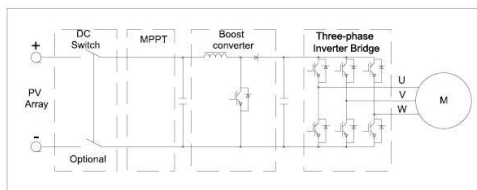
PV PUMP CONTROLLER / INVERTER



Product Features

- Drive power-matched three-phase AC pump
- Adopt advanced IGBT power module
- High conversion efficiency, low temperature rise, low noise, long lifespan
- Advanced MPPT technology, efficiency > 99%
- Fully automatic operation, it can store operation data for 10 years
- Perfect system protection, high reliability
- New design of anodized aluminum case
- LCD display
- Interface: RS485/WiFi
- Modular design, easy to install, operate, maintain
- Fanless design

Schematic



Technical Parameters

	EHE-P750L (For 1 HP 230V 3-Phase Pump)	EHE-P1K5L (For 2 HP 230V 3-Phase Pump)	EHE-P2K2L (For 3 HP 230V 3-Phase Pump)	
DC input	Max. input DC voltage	450Vdc		
	Recommended MPPT voltage	150-400Vdc		
	Max. input DC current	5A	10A	14.6A
	Max. MPPT efficiency	99%		
	Number of strings	1		
AC output	Max. applicable motor output power	0.75kW	1.5kW	2.2kW
	Rated output voltage	220-260 V _{ac} 3-phase		
	Output frequency range	0-50/60Hz		
	Rated output current	3.5A	7A	11A
Mechanical data	Dimension(W/H/D)	330/450/152(mm)		
	Weight	12kg	12.5kg	
System	Max. efficiency	97%		
	Protective class	I		
	Protection degree	IP65		
	Environmental temperature	-25°C - +60°C; above 60°C need derate operating		
	Cooling method	Natural cooling		
	Display	LCD		
	Communication interface	RS485/WiFi		
	Altitude	3000m; above 3000m need derate operating		
	Noise emission	< 50dB		
	Compliance	EN 50178; IEC/EN 62109-1; IEC 61800		



IEC

IEC 61683 ; IEC 60068-2

Technical Parameters

	EHE-P3KL (For 4 HP 230V 3-Phase Pump)	EHE-P3K7L (For 5 HP 230V 3-Phase Pump)	EHE-P4KL (*) (For 5.5 HP 230V 3-Phase Pump)	
DC input	Max. input DC voltage	450Vdc		
	Recommended MPPT voltage	150-400Vdc		
	Max. input DC current	21A	24.6A	15A
	Max. MPPT efficiency	99%		
	Number of strings	2		
AC output	Max. applicable motor output power	3kW	3.7kW	4.0kW
	Rated output voltage	220-260 V _{ac} 3-phase		
	Output frequency range	0-50/60Hz		
	Rated output current	14A	17A	20A
Mechanical data	Dimension(W/H/D)	330/450/152(mm)		265/430/166(mm)
	Weight	12.5kg	7.5kg	
System	Max. efficiency	97%		
	Protective class	I		
	Protection degree	IP65		
	Environmental temperature	-25°C - +60°C; above 60°C need derate operating		
	Cooling method	Natural cooling		
	Display	LCD		
	Communication interface	RS485/WiFi		
	Altitude	3000m; above 3000m need derate operating		
	Noise emission	< 50dB		
	Compliance	EN 50178; IEC/EN 62109-1; IEC 61800		

Note: The schematic of EHE-P4KL is the same as EHE-PxH series.

EHE-P2K2H/P3KH/P3K7H/P4KH/P5K5H/P7K5H

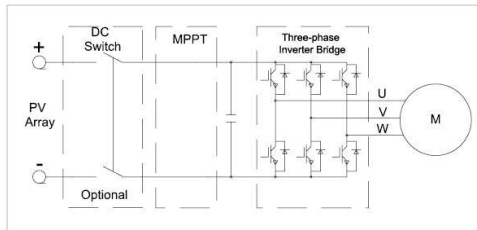
PV PUMP CONTROLLER / INVERTER



Product Features

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Schematic



Technical Parameters

	EHE-P2K2H (For 3 HP 415V 3-Phase Pump)	EHE-P3KH (For 4 HP 415V 3-Phase Pump)	EHE-P3K7H (For 5 HP 415V 3-Phase Pump)	
DC input	Max. input DC voltage	880Vdc		
	Recommended MPPT voltage	460-850Vdc		
	Max. input DC current	5A	6.9A	8.4A
	Max. MPPT efficiency	99%		
	Number of strings	2		
AC output	Max. applicable motor output power	2.2kW	3kW	3.7kW
	Rated output voltage	380-460Vac 3-phase		
	Output frequency range	0-50/60Hz		
	Rated output current	6A	7A	9A
Mechanical data	Dimension(W/H/D)	265/430/166(mm)		
	Weight	7.5kg		
System	Max. efficiency	96%	97%	98%
	Protective class	I		
	Protection degree	IP65		
	Environmental temperature	-25°C - +60°C; above 60°C need derate operating		
	Cooling method	Natural cooling		
	Display	LCD		
	Communication interface	RS485/WiFi		
	Altitude	3000m; above 3000m need derate operating		
	Noise emission	< 50dB		
	Compliance	EN 50178; IEC/EN 62109-1; IEC 61800		



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Technical Parameters

	EHE-P4KH (For 5.5 HP 415V 3-Phase Pump)	EHE-P5K5H (For 7.5 HP 415V 3-Phase Pump)	EHE-P7K5H (For 10 HP 415V 3-Phase Pump)	
DC input	Max. input DC voltage	880Vdc		
	Recommended MPPT voltage	460-850Vdc		
	Max. input DC current	9A	12A	16.3A
	Max. MPPT efficiency	99%		
	Number of strings	2	3	
AC output	Max. applicable motor output power	4.0kW	5.5kW	7.5kW
	Rated output voltage	380-460Vac 3-phase		
	Output frequency range	0-50/60Hz		
	Rated output current	10A	13A	18A
Mechanical data	Dimension(W/H/D)	265/430/166(mm)		
	Weight	7.5kg		
System	Max. efficiency	98%		
	Protective class	I		
	Protection degree	IP65		
	Environmental temperature	-25°C - +60°C; above 60°C need derate operating		
	Cooling method	Natural cooling		
	Display	LCD		
	Communication interface	RS485/WiFi		
	Altitude	3000m; above 3000m need derate operating		
	Noise emission	< 50dB		
	Compliance	EN 50178; IEC/EN 62109-1; IEC 61800		

EHE-/P11KH/P15KH/P18K5H

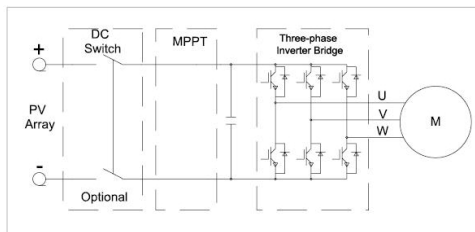
PV PUMP CONTROLLER / INVERTER

ARSai®

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- Perfect system protection, high reliability
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- LCD display
- Interface: RS485/WiFi
- Modular design, easy to install, operate, maintain

Schematic



Technical Parameters

	EHE-P11KH (For 15 HP 415V 3-Phase Pump)	EHE-P15KH (For 20 HP 415V 3-Phase Pump)	
DC input	Max. input DC voltage	880Vdc	
	Recommended MPPT voltage	460-850Vdc	
	Max. input DC current	24.4A	33.3A
	Max. MPPT efficiency	99%	
	Number of strings	3	
AC output	Max. applicable motor output power	11kW	15kW
	Rated output voltage	380-460Vac 3-phase	
	Output frequency range	0-50/60Hz	
	Rated output current	21A	29A
Mechanical data	Dimension(W/H/D)	305/430/185(mm)	
	Weight	10kg	
System	Max. efficiency	98%	
	Protective class	I	
	Protection degree	IP65	
	Environmental temperature	-25°C - +60°C; above 60°C need derate operating	
	Cooling method	Force cooling	
	Display	LCD	
	Communication interface	RS485/WiFi	
	Altitude	3000m; above 3000m need derate operating	
	Noise emission	< 50dB	
	Compliance	EN 50178; IEC/EN 62109-1; IEC 61800	



IEC

IEC 61683 ; IEC 60068-2

Technical Parameters

	EHE-P18K5H (For 25 HP 415V 3-Phase Pump)	
DC input	Max. input DC voltage	880Vdc
	Recommended MPPT voltage	460-850Vdc
	Max. input DC current	41.1A
	Max. MPPT efficiency	99%
	Number of strings	3
AC output	Max. applicable motor output power	18.5kW
	Rated output voltage	380-460Vac 3-phase
	Output frequency range	0-50/60Hz
	Rated output current	36A
Mechanical data	Dimension(W/H/D)	305/430/185(mm)
	Weight	10kg
System	Max. efficiency	98%
	Protective class	I
	Protection degree	IP65
	Environmental temperature	-25°C - +60°C; above 60°C need derate operating
	Cooling method	Force cooling
	Display	LCD
	Communication interface	RS485/WiFi
	Altitude	3000m; above 3000m need derate operating
	Noise emission	< 50dB
	Compliance	EN 50178; IEC/EN 62109-1; IEC 61800