



Shakti Inverter Based Submersible Pump 4 SS Series (Plastic)

INTRODUCTION

Shakti inverter based submersible Pump-sets - 4ss series is a robust 4" pump-set designed for long life operation, The three major components in a pump-set are the pump, motor and VFD (Variable Frequency Drive). All three components are connected in a modular system that provides an integrated controller system with the motor pump. The modular approach offers the advantage of easy installation and service. Pump is built mainly in a special floating type impeller, the design is to enhance the overall performance of pumps. All vital components of these pumps are made up of corrosive resistance material and the shaft is of SS 304. Pump is driven by high efficiency PMSM motor, which is best known for its efficiency, and it is controlled by high efficient VFD, also it gives soft start and stop feature to the system thereby improving the mechanical life of overall system. The motor is not affected by input voltage fluctuation & surges due to smart inverter input site controller, it also provides various protections such as dry run, over voltage, over current, over load, etc.

APPLICATIONS

- Water supply in residential bungalow, school, hospitals.
- Gardening and fountains
- Irrigation and watering of cattle.
- Civil applications use.

FEATURES

GENERAL PUMPSET	INVERTER PUMPSET - 4SS
Pump impellers are non floating type.	Pump impellers are floating type.
Pumpset Consumes more electricity	Pumpset is Energy efficient
Require 3-core cable	Require 2-Core cable with laser cable size, and approx. 65% cost saving on cable
Require controller box to operate	No need to extra Controller Box, Inbuilt controller available
	Simple installation and maintenance free

VFD FEATURES

- Input power factor above 0.95
- Dry run protection
- Overvoltage Trip
- Over temperature and over current protection
- No need of control box near to supply
- Plug and Start motor from single phase supply with unity power factor
- Energy efficient IP68 VFD
- Wide Voltage range from 160V to 270 V
- Under voltage protection
- Underground VFD for water pumping application
- User friendly as easy connection and simple arrangement

PERFORMANCE TABLE

Material Code	Model	KW	HP	Stage	Discharge (LPM)	0	20	30	40	50	60	80
9900005275	INVERTER PUMPSET 4SS1.5-18-PMSM-2.2KW	2.2	3	18	Head (M)	206	193	179	154	122	83	6
Material Code	Model	KW	HP	Stage	Discharge (LPM)	0	35	40	50	60	70	90
9900005205	INVERTER PUMPSET 4SS2-17-PMSM-2.2KW	2.2	3	17	Head (M)	194	168	160	140	114	82	8



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THE POWER OF INNOVATION, EFFICIENCY & TECHNOLOGY.

Best Suitable Application



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