

Solar AC & DC Water Pumping System

KOSOL Energie offers both options **AC and DC Solar Water Pumping System** which operating directly on solar energy.

Benefits

- No dependency on any other fuel or conventional sources
- Reliable water supply from dawn to dusk
- Versatile applications with high life expectancy
- Under and over voltage protection
- Reverse polarity and dry run protection
- Easy & low maintenance



Applications

- Agriculture
- Fountains
- Sprinkle Irrigation
- Drip Irrigation
- Mass Irrigation
- Livestock Watering
- Water Treatment Plants
- Filling Overhead Tanks
- Forced Water Circulation
- Swimming Pools & Resorts
- Drinking Water Supply
- Townships
- High-rise Buildings
- Row Houses

Specifications

- Solar Modules : KOSOL Energie Polycrystalline Modules with high efficiency and long life
- Controller : Sine-wave Pump Controller with MPPT (SPCM) having two stage converter topology offered better performance throughout the operational range & over the most popular controllers using the Variable Frequency Drives (VFD).
- Structure : MS Galvanized structures (Dual-Axis/Fixed Tilt) to ensure higher yield and longer durability
- Pump-set : Single & Three phase motor pump-sets designed to provide optimal discharge on Solar mode. KOSOL also offers DC Water Pumping Systems from 3, 5, 7.5 & 10 HP capacities.

TECHNICAL SPECIFICATIONS

Model	3 Ph AC Motor Pump Rated Power	Inverter Unit Rated Power	Structure Type of Tilt	Solar Modules		System Performance	
				Pmax at STC (kW)	Area Required (Sq m)	Head (m)	Discharge* (Ltr/day)
KE – 3HP SP	3 Hp	3 Hp	Dual Axis Manual	3	30	50	57000
KE – 5HP SP	5 Hp	5 Hp	Dual Axis Manual	5	50	50	91000
KE – 7.5HP SP	7.5 Hp	7.5 Hp	Fixed	7.5	75	100	140400
KE – 10HP SP	10 Hp	10 Hp	Fixed	10	100	100	180900
KE – 15HP SP	15 Hp	15 Hp	Fixed	15	150	100	243000