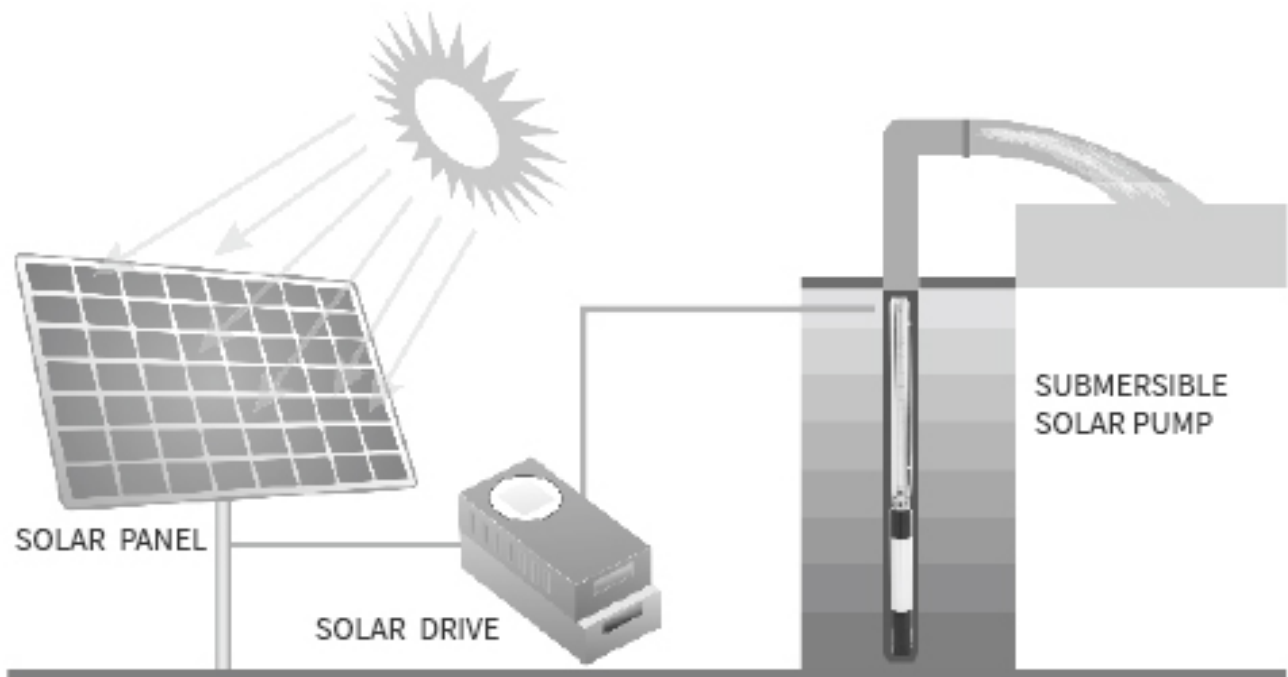


# SUMO

## Solar Pumps



A complete green energy solution with 40% more discharge as compared to ordinary pumps.  
Range: **1hp – 100 hp**

Specifications	
Solar modules	Polycrystalline modules with high efficiency and long life
Controller	Sine-wave pump controller with MPPT (SPCM) and two-stage converter topology offers better performance throughout the operational range over the most popular controllers using variable frequency drives (VFD)
Structure	MS galvanised structures (dual axis/fixed tilt) to ensure higher yield and longer durability
Pump set	Single and three phase motor pump sets designed to provide optimal discharge on solar mode

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)
SI-3hp SP	3hp	3hp	Dual Axis Manual	3	30	50	57000
SI-5hp SP	5hp	5hp	Dual Axis Manual	5	50	50	91000
SI-7.5hp SP	7.5hp	7.5hp	Fixed	7.5	75	100	140400
SI-10hp SP	10hp	10hp	Fixed	10	100	100	180900
SI-15hp SP	15hp	15hp	Fixed	15	150	100	243000

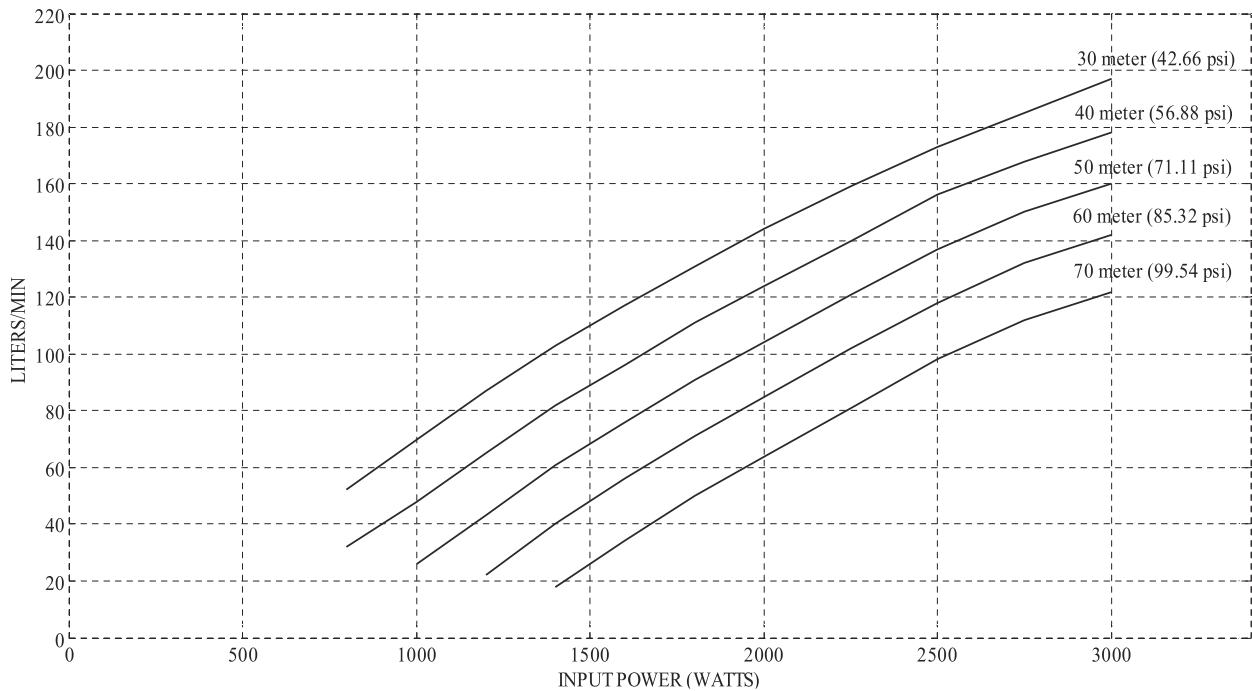
\*At STC conditions and irradiation of 5.5 kWh/sq m/day

## Pump Performance

Motor 3hp

230 volt motor - (6"x4") - BSP 2.0"

Maximum OD 6"



	Input Power (Watts)										
	3000	2750	2500	2250	2000	1800	1600	1400	1200	1000	800
Head(m)	Flow Rate (litres/minute)										
30	197	185	173	159	144	131	117	103	87	70	52
40	178	168	156	140	124	111	96	82	65	48	32
50	160	150	137	121	104	91	76	61	43	26	
60	142	132	118	102	85	71	56	40	22		
70	122	112	98	81	64	50	34	18			

## Benefits

1. No dependency on conventional fuel sources
2. Reliable water supply from dawn till dusk
3. Versatile applications with high life expectancy
4. Under and over voltage protection
5. Reverse polarity and dry run protection
6. Easy and low maintenance

## Applications

1. Agriculture
2. Fountains
3. Sprinkle irrigation
4. Drip irrigation
5. Mass irrigation
6. Livestock watering
7. Water treatment plants
8. Filling overhead tanks
9. Forced water circulation
10. Swimming pools and resorts
11. Drinking water supply
12. Townships
13. High-rise buildings
14. Row houses