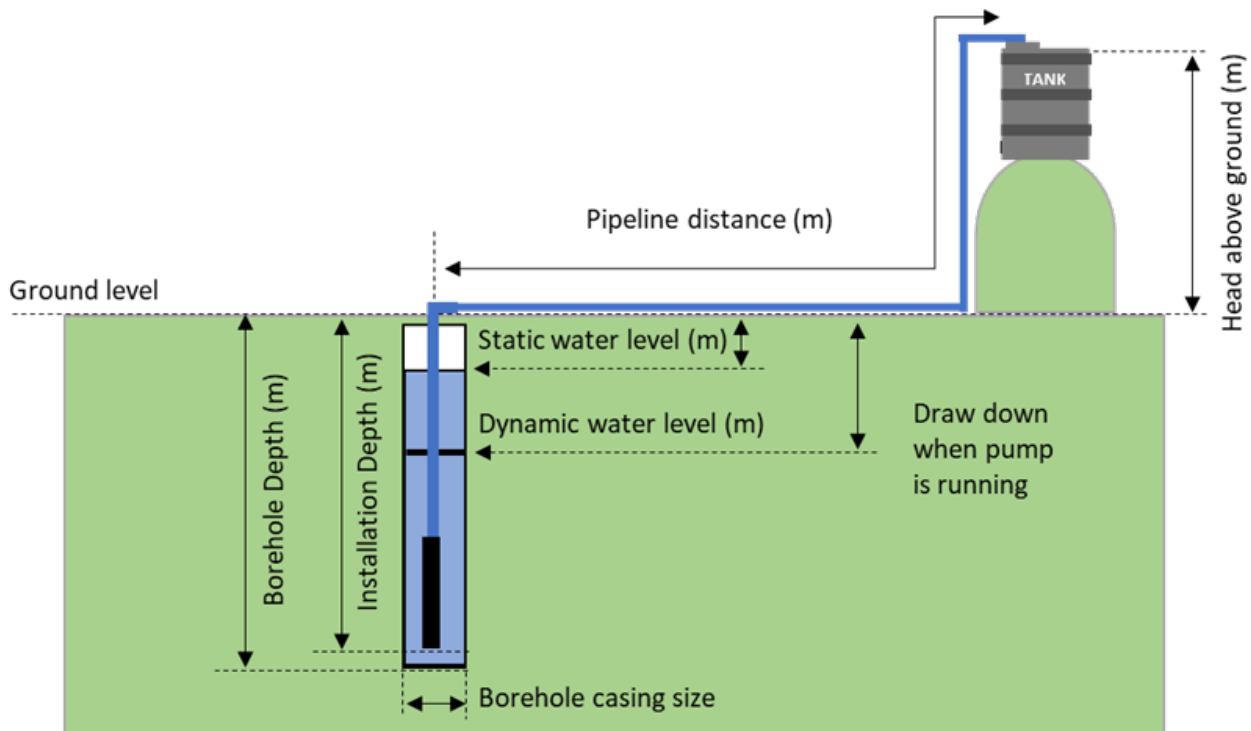


## DSS SERIES

Stainless Steel 3Inch Screw  
Submersible Solar Pumps



# How to choose a pump



## Selection Criteria:

1. Casing inner diameter
2. Borehole depth (m)
3. Installation depth (m)
4. Static Water Level (m)
5. Dynamic water level (m)
6. Static height above ground level (m)
7. Distance above ground (m) (if applicable)
8. Current pipe size, and class (if applicable)
9. Capacity / flow – liters per day (7-8 hours pumping per day)
10. Other pressure required

## Calculate method Total Pumping Head (TPH):

TPH = Installation depth (m) + Head above ground (m) + Friction in pipe over pipe distance

## For example

Installation depth = 50m, Head above ground = 20m

Friction in pipe (32mm C6 over 1000m @ 500 L/H) = 5m

TPH = 50 + 20 + 5 = 75m

## Submersible solar pump advantages

- Permanent magnet DC brush-less synchronous motor
- 304 Stainless steel pump shaft
- Stainless steel outlet, connector and motor
- Double bearing motor base can work under more axial pressure
- Alloy mechanical seal: Longer working life and high reliability
- Motor coil is made by automatic winding machine with centralized winding technology, motor efficiency improved
- Intelligent water shortage protection
- LED displays the power, voltage, current, speed and working condition
- Automatically start and stop working
- High voltage, low voltage, over-current, high temperature protection
- Soft start: No impulse current, protect the pump motor



## Pump parameter

Model	Motor Voltage (V)	Power (Watt)	Open Circuit Voltage VOC(v)	Max Flow (m³/h)	Max Head (m)	Outlet (INCH)	Diameter (INCH)
3DSS 24-120	24	120	<50	1.2	56	3/4"	3"
3DSS 36-210	36	210	<50	1.2	77	3/4"	3"
3DSS 48-500	48	500	<100	1.7	109	3/4"	3"
3DSS 48-750	48	750	<100	2	150	3/4"	3"
3DSS 72-750	72	750	<150	2	150	3/4"	3"
3DSS 72-1100	72	1100	<150	2.2	180	3/4"	3"

## Pump performance table

Model	Power	Panels	l/min m³/h	0	3	7	10	13	17	20	23	27	30	33	37
	kW	Watt		0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2
3DSS 24-120	0.12	1 x 200W	H(m)	56	46	40	34	26	18	8	2	-	-	-	-
3DSS 36-210	0.21	1 x 330W		90	82	70	50	40	24	16	8	2	-	-	-
3DSS 48-500	0.50	2 x 330W		100	94	84	76	66	52	46	40	28	20	10	-
3DSS 48-500	0.50	4 x 200W		110	102	96	92	80	74	62	50	28	20	12	-
3DSS 72-750	0.75	3 x 330W		110	98	92	86	82	74	66	58	40	20	10	-
3DSS 72-750	0.75	3 x 450W		130	122	112	106	94	80	60	48	20	8	2	-
3DSS 72-1100	1.10	6 x 330W		130	126	120	118	110	90	76	60	40	20	10	-

## Cable selection table

Model	Power	Cable Size	Head (m)													
	kW		10	20	30	40	50	60	70	80	90	100	110	120	130	140
3DSS 24-120	0.12	mm x 3core	4	4	4	4	6	-	-	-	-	-	-	-	-	-
3DSS 36-210	0.21	mm x 3core	4	4	4	4	6	6	6	6	-	-	-	-	-	-
3DSS 48-500	0.50	mm x 3core	4	4	4	4	6	6	10	10	10	10	-	-	-	-
3DSS 72-750	0.75	mm x 3core	4	4	4	4	4	4	6	6	6	10	10	10	10	10
3DSS 72-1100	1.10	mm x 3core	4	4	4	4	6	6	10	10	10	10	10	16	16	16



# Product packaging



## • Pump kit

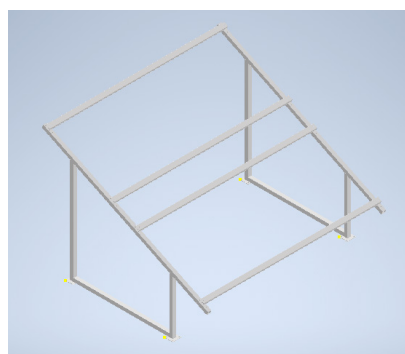


Basic installation kit, includes:

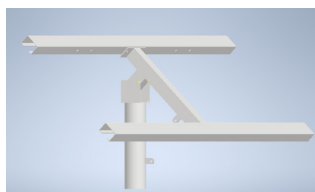
- 3" Pump
- 3" Motor
- Control box
- Accessories
- Float switch

## • Full installation kit

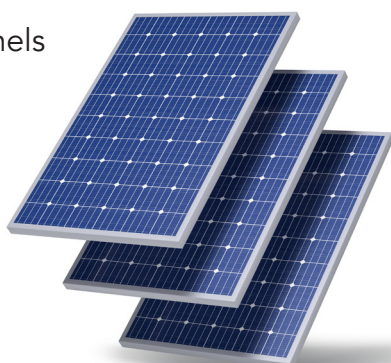
Intermediate kit + additional:  
Solar panel + frame + HDPE pipe



Solar frame: pole mounted or stage mounted



Solar Panels



HDPE Pipe



## • Intermediate kit

Installation kit aimed to simplify, includes:

-Pump kit + additional:

- Submersible cable (as per kit length)
- Safety rope (as per kit length)
- Base Plate
- Adaptors / Fittings

