



SOLAR RANGE

LSS & LARS BOREHOLE PUMP



BOREHOLE DC SOLAR



Pumps 3LSS (3")

Material 180W - 400W:

- 304 Stainless Steel Casing
- 304 Stainless Steel Shaft
- 304 Stainless Steel Coupling
- Cast Iron/Nickel plated pump body
- 304 Stainless Steel Submersible motor
- Graphite bearings
- 100% Copper windings
- Wear resistant rubber stator

Material 250W - 750W:

- 304 Stainless Steel Casing
- 304 Stainless Steel Shaft
- 304 Stainless Steel Coupling
- 304 Stainless Steel Pump body
- 304 Stainless Steel Submersible motor
- Graphite bearings
- 100% Copper windings
- Wear resistant rubber stator

Product Feature:

- Compact structure with high efficiency, low noise and pollutant free.
- Speed controller for accommodating low yield boreholes.
- Soft start electrical control panel provides protection against under-voltage, over-voltage, over-pumping, overloading and provides waterless automatic recovery.
- Easy installation, maintenance-free, safe and reliable.
- DC Brushless Motor:
 - Max Water Submersion Depth : 20m (180W) & 50m (250W, 350W, 400W, 750W)
 - Max Flow: 2m³/h
 - Max Head: 110m
- Probe for monitoring water level in borehole.
- Probe for monitoring water level in tank.
- Spare rotor & stator set.

Application:

Suitable for installations in boreholes, wells, rivers, dams and tanks with minimum ID Ø 80mm.

Working Conditions:

- Non-corrosive water with a volume ratio of sand content not exceeding 1% and the particle size not exceeding 0.5mm.
- Max pumped liquid temperature: 40°C
- PH capability: 6.5 - 8.5



BOREHOLE DC SOLAR

Pumps 3LSS (3")



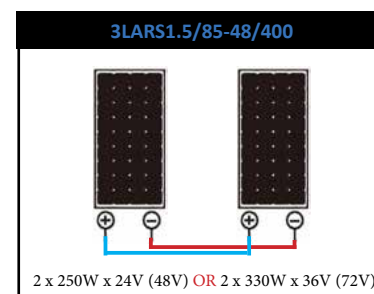
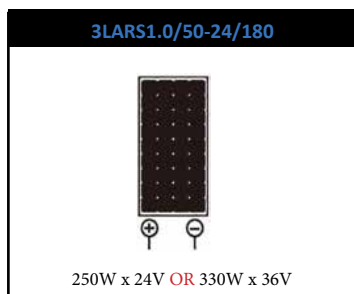
Performance Table:

MODEL	MOTOR VOLTAGE (V)	POWER (WATT)	MAX FLOW (m³/h)	MAX HEAD (m)	OUTLET (INCH)	CABLE SIZE BETWEEN INVERTER AND MOTOR
3LARS1.0/50-24/180	24	180	1.5	50	¾"	3 CORE 2.5mm²
3LARS1.2/60-24/250	24	250	1.2	60	¾"	3 CORE 2.5mm²
3LARS1.5/85-48/400	48	400	1.3	85	¾"	3 CORE 2.5mm²

*Note: For distance between PV Panels and Inverter, do not exceed 3 meters (cable length) when using 2.5mm² cable.

MODEL	POWER		Flow	HEAD (M)												SOLAR PANELS		
	kW	HP		0	10	20	30	40	50	60	70	80	90	100	110	VOLTAGE	POWER	TOTAL
3LARS1.0/50-24/180	0.18	0.24	l/min	25	20	17	14	11	1.66	-	-	-	-	-	-	24 OR 36	1 x 250 or 1 x 330	24V x 250W or 36V x 330W
			m³/h	1.5	1.2	1.02	0.84	0.66	0.1	-	-	-	-	-				
3LARS1.2/60-24/250	0.25	0.3	l/min	20.83	15.67	12.83	9.67	6.50	3.5	-	-	-	-	-	24 OR 36	1 x 250 or 1 x 330	24V x 250W or 36V x 330W	
			m³/h	1.25	0.94	0.77	0.58	0.39	0.21	-	-	-	-	-				
3LARS1.5/85-48/400	0.40	0.54	l/min	22.67	21.67	19.33	15.67	12.67	10.33	8.00	5.67	3.17	-	-	24 OR 36	2 x 250 or 2 x 330	24V x 500W or 36V x 660W	
			m³/h	1.36	1.3	1.16	0.94	0.76	0.62	0.48	0.34	0.19	-	-				

Solar Panels:



BOREHOLE DC SOLAR



Pumps 3LARS (3")

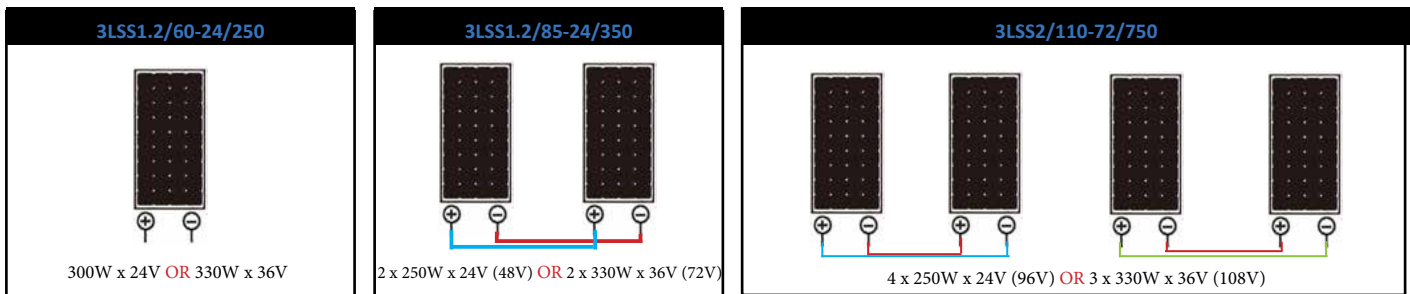
Performance Table:

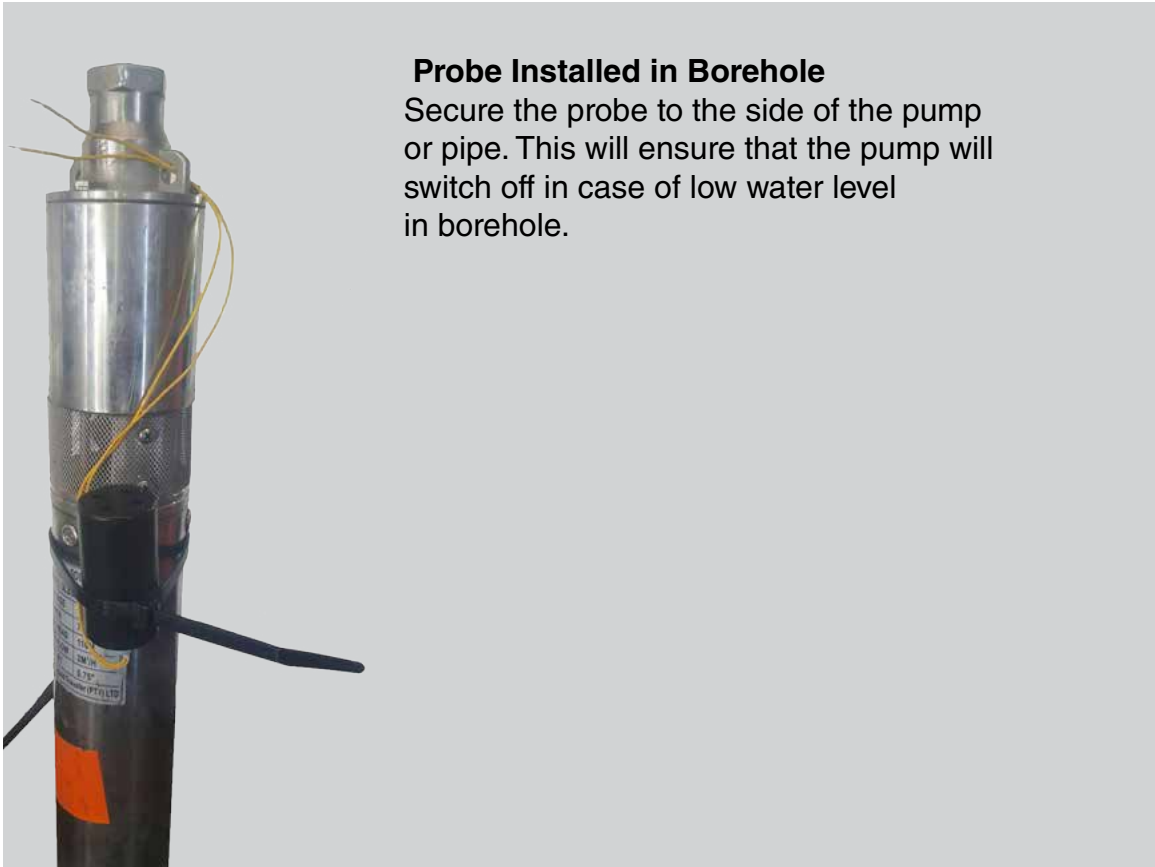
MODEL	MOTOR VOLTAGE (V)	POWER (WATT)	MAX FLOW (m³/h)	MAX HEAD (m)	OUTLET (INCH)	CABLE SIZE BETWEEN INVERTER AND MOTOR
3LSS1.2/60-24/250	24	250	1.2	60	¾"	3 CORE 2.5mm²
3LSS1.2/85-24/350	24	350	1.2	85	¾"	3 CORE 2.5mm²
3LSS2/110-72/750	72	750	2	110	¾"	3 CORE 2.5mm²

*Note: For distance between PV Panels and Inverter, do not exceed 3 meters (cable length) when using 2.5mm2 cable.

MODEL	POWER		Flow	HEAD (M)												SOLAR PANELS		
	kW	HP		0	10	20	30	40	50	60	70	80	90	100	110	VOLTAGE	POWER	TOTAL
3LSS1.2/60-24/250	0.25	0.3	l/min	20.33	20	18.33	15.33	12.66	8.66	1.66	-	-	-	-	-	24 OR 36	1 x 250 or 1 x 330	24V x 250W or 36V x 330W
			m³/h	1.22	1.2	1.1	0.92	0.76	0.52	0.1	-	-	-	-	-			
3LSS1.2/85-24/350	0.35	0.47	l/min	20.33	18.33	16.66	14.16	11.66	8.33	5	3.33	1.66	-	-	-	24 OR 36	2 x 250 or 2 x 330	24V x 500W or 36V x 660W
			m³/h	1.2	1.1	1.0	0.85	0.7	0.5	0.3	0.2	0.1	-	-	-			
3LSS2/110-72/750	0.75	1	l/min	33.33	33.33	31.33	27.83	24.33	20.83	18.33	14	12	7.5	5	1.66	24 OR 36	4 x 250 or 3 x 330	24V x 1000W or 36V x 990W
			m³/h	2.0	2.0	1.88	1.67	1.46	1.25	1.1	0.84	0.72	0.45	0.3	0.1			

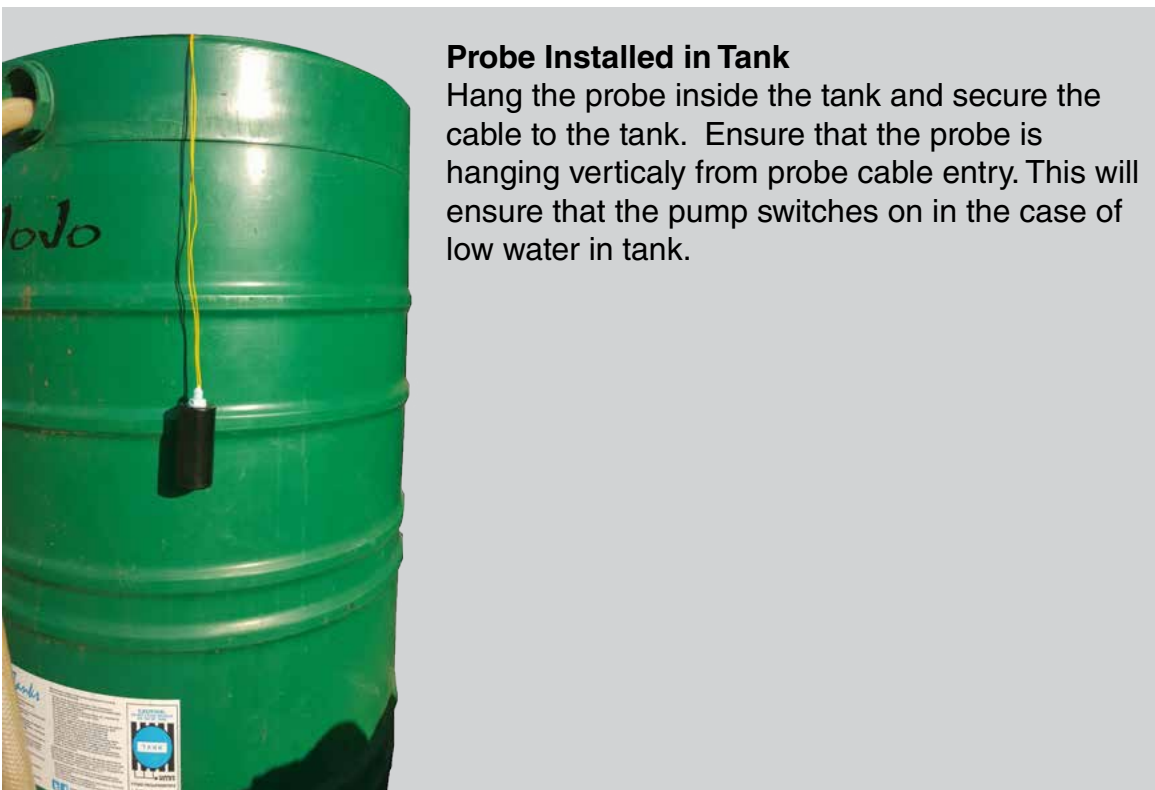
Solar Panels:





Probe Installed in Borehole

Secure the probe to the side of the pump or pipe. This will ensure that the pump will switch off in case of low water level in borehole.



Probe Installed in Tank

Hang the probe inside the tank and secure the cable to the tank. Ensure that the probe is hanging vertically from probe cable entry. This will ensure that the pump switches on in the case of low water in tank.