

TAFLO

4SPW 3-18

AC/DC PUMP



APPLICATION

The TAFLO SPF range are a robust AC/DC Solar pumps designed for borehole application as well as Tank and shallow wells installation. The pump motor has an inbuilt electronic unit containing a frequency converter and motor controller which allows it to be powered by both AC and DC sources. The Motor operates at a speed range of 500-3600rpm depending on power input and load, which allows the pump to operate at any point within the performance curve.

CONSTRUCTION FEATURES

- Hybrid Motor powered by both AC and DC source, priority being given to DC and AC tops up any shortfall in solar irradiation
- Soft Start running. Supply voltage 60-380Vmp or 90-240VAC at 50/60Hz. Max VOC 440V
- Inbuilt protection against Dry run, Reverse rotation, Overload, Over current, Over/under voltage, Lightening
- Materials of construction SS304

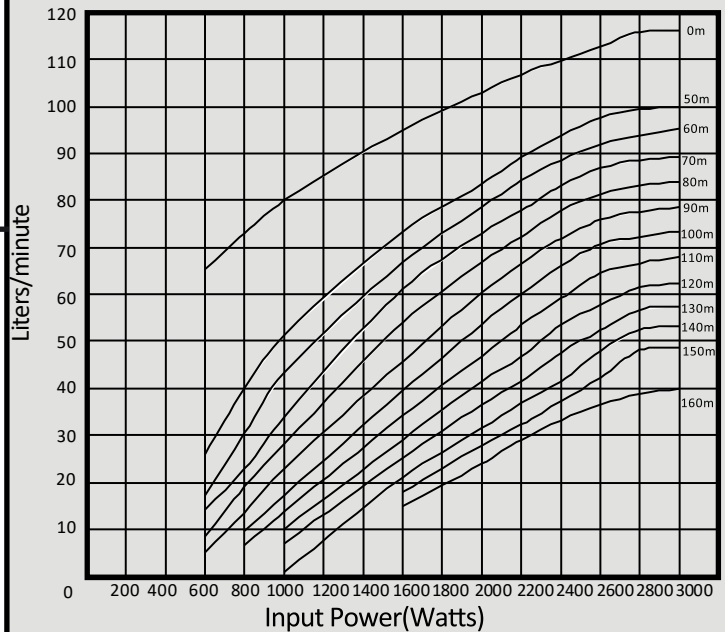
PUMP CONTROLLER FEATURES

- Display input power AC and DC, Water Level control with electric float switch, Pressure control with pressure switch, • Can select power source to either AC, DC or Auto mode.
- Auto mode allows automatic switching between DC and AC depending on solar irradiation.
- Has provision for generator connection.
- IP65 weatherproof enclosure

PUMP LIQUID

Clean non aggressive water with no sand. Maximum Temperature 300C

PERFORMANCE CURVES



TECHNICAL DATA

HEAD(m)	INPUT POWER(WATTS)									
	600	800	1000	1600	2000	2200	2400	2600	2800	3000
	FLOW RATE(ltrs/min)									
0	65	73	80	95	103	107	110	113	116	116
50	26	40	51	73	84	89	94	98	99	100
60	17	30	43	67	78	84	89	92	94	95
70	14	23	34	61	73	78	83	87	89	89
80	9	19	28	54	67	72	78	81	83	84
90	5	14	23	46	60	67	72	76	78	78
100		10	17	39	54	60	66	71	72	73
120		7	14	34	47	53	59	64	67	68
120			10	29	42	47	53	58	61	62
130			7	25	37	41	48	52	57	57
140			1	21	32	37	41	48	53	53
150				18	28	32	37	42	48	49
160				15	24	29	33	36	39	40

Model	PV Connection	Max Input Power	Dc Volatges Range	Outlet size	Motor Speed	PV	Pump Diameter	Net weight
4SPW3-18	In series	3KW	280-380Vmp (VOCmax=440V)	1.25"	500-3600	300Wx10	4"	15.3kgs