

PS-PUMP PERFORMANCE TABLE / BATTERY MODELS



48V (Use PS600 Controller)						
total lift		flow rate		power input	current	wire size / max. length
[ft]	[m]	[US gal/h]	[m ³ /h]	[w]	[l]	
15	4,5	745	2,82	110	2,3	HR-20 #12/ 80 ft. #10/120ft. 4mm ² / 25m 6mm ² /35m
25	8	729	2,76	165	3,4	
50	15	697	2,64	230	4,8	
75	23	666	2,52	280	5,8	
100	30	634	2,40	345	7,2	
25	8	547	2,07	115	2,4	HR-14 #14 / 90 ft. 2.5mm ² / 30m #10 / 150 ft. 6mm ² / 50m #8 / 190 ft. 10mm ² / 65m
50	15	533	2,02	160	3,3	
75	23	523	1,98	225	4,7	
100	30	499	1,89	265	5,5	
125	38	476	1,80	320	6,7	
150	46	439	1,66	340	7,1	HR-07 #10 / 215 ft. 6mm ² / 70m #6 / 400 ft. 10mm ² / 110m
175	53	417	1,58	380	7,9	
200	61	214	0,81	240	5,0	
250	76	206	0,78	280	5,8	HR-04H #6 / 500 ft. 10mm ² / 140m #6 / 525 ft. 10mm ² / 160m (9.5%)
300	91	200	0,76	320	6,7	
350	107	132	0,50	252	5,3	
400	122	130	0,49	275	5,7	HR-03H #6 / 600 ft. 16mm ² / 200m (7%)
450	137	128	0,49	300	6,3	
500	152	127	0,48	330	6,9	
600	183	79	0,30	255	5,3	

24V (USE PS200 or PS600 Controller)						
total lift		flow rate		power input	current	wire size / max. length
[ft]	[m]	[US gal/h]	[m ³ /h]	[w]	[l]	
15	4,5	396	1,50	45	1,9	HR-20 #12 / 80 ft. 4mm ² / 25m
25	8	380	1,44	60	2,5	
40	15	333	1,26	98	4,1	
75	23	293	1,11	125	5,2	
50	15	276	1,04	78	3,3	
75	23	260	0,98	110	4,6	HR-14 #14 / 85 ft. 2,5mm ² / 35m #12 / 100 ft. 4mm ² / 35m
100	30	233	0,88	132	5,5	
125	38	206	0,78	157	6,5	
150	46	190	0,72	180	7,5	HR-04H #8 / 180 ft. 10mm ² / 55m
175	53	84	0,32	90	3,8	
200	61	82	0,31	98	4,1	HR-04H #10 / 180 ft. 6mm ² / 60m #6 / 460 ft. 10mm ² / 130m cable loss max 10%
250	76	78	0,29	113	4,7	
300	91	71	0,27	122	5,1	
350	107	67	0,25	135	5,6	
400	122	63	0,24	151	6,3	
450	137	57	0,22	165	6,9	

Lift Limits: These systems are selected for ARRAY TO CONTROLLER if <10 m. (30ft) 4mm² / #12 optimum performance. To allow unexpected minimum drawdown, each system can handle an CONTROLLER TO LOW-WATER PROBE 1mm² / #18 min. additional 15% lift double wire conductor

Performance may vary +/- 10% from specifications.

Controller of PSxxx series include Low Voltage Disconnect to protect the battery from deep discharge

WARNING:

SHORT CIRCUIT PROTECTION IS REQUIRED FOR ANY BATTERY SYSTEMS.

Install a fuse or a circuit breaker min. 20 Amps or larger (slow blow) between battery and pump controller.

Note: PS600, PS200: speed control, max. pump speed stepless adjustable to reduce flow rate to approx.50 %

PS-PUMP PERFORMANCE TABLE / BATTERY MODELS 2



48V / for minimum power layout (Use PS200 or PS600 Controller)						
total lift		flow rate		power input	current	wire size / max. length AWG / metric
[ft]	[m]	[US gal/h]	[m ³ /h]	[w]	[l]	
25	8	159	0,60	50	1,0	HR-04 #14 / 150 ft. 2.5mm ² / 55m
50	15	149	0,56	60	1,3	
75	23	146	0,55	75	1,6	
100	30	139	0,53	92	1,9	
125	38	132	0,50	105	2,2	
150	46	128	0,49	122	2,5	
175	53	122	0,46	132	2,8	
200	61	114	0,43	147	3,1	
250	76	92	0,35	163	3,4	
300	91	90	0,34	176	3,7	
350	107	87	0,33	190	4,0	
400	122	84	0,32	200	4,2	
450	137	82	0,31	215	4,5	
500	152	81	0,31	230	4,8	
						#8 / 500 ft. 10mm ² / 180m

24V / for minimum power layout (Use PS200 or PS600 controller)						
total lift		flow rate		power input	current	wire size / max. length AWG / metric
[ft]	[m]	[US gal/h]	[m ³ /h]	[w]	[l]	
25	8	89	0,34	38	0,8	HR-04 #12 / 140ft 2,5mm ² / 35m
50	15	87	0,33	42	0,9	
75	23	86	0,32	49	1,0	
100	30	82	0,31	55	1,1	
125	38	81	0,31	62	1,3	
150	46	79	0,30	70	1,5	
175	53	75	0,28	77	1,6	
200	61	71	0,27	84	1,8	
250	76	63	0,24	98	2,0	
300	91	51	0,19	100	2,1	
350	107	48	0,18	109	2,3	
400	122	44	0,17	113	2,4	

Note: PS600, PS200: speed control, max. pump speed stepless adjustable to reduce flow rate to approx.50 %

SAND AND SILT TOLERANCE

HR Pumps have high resistance to wear from sand, clay, etc. that may occur in a properly constructed water well. However, extremely turbid water (greater than 2% solids by volume) may cause the pump to stop and require clean-out. Do not use the pump to clean out a dirty well.