

HydroTron

Solar Pumps

Quality Construction
Proven Performance
Value for Money



HydroTron

Solar Pump Installation Information

Installation Requirements:

Water Required / Day: _____

Static Head metres: _____

Horizontal distance to Bore metres: _____

Pipe Size: _____

Bore / Water Source

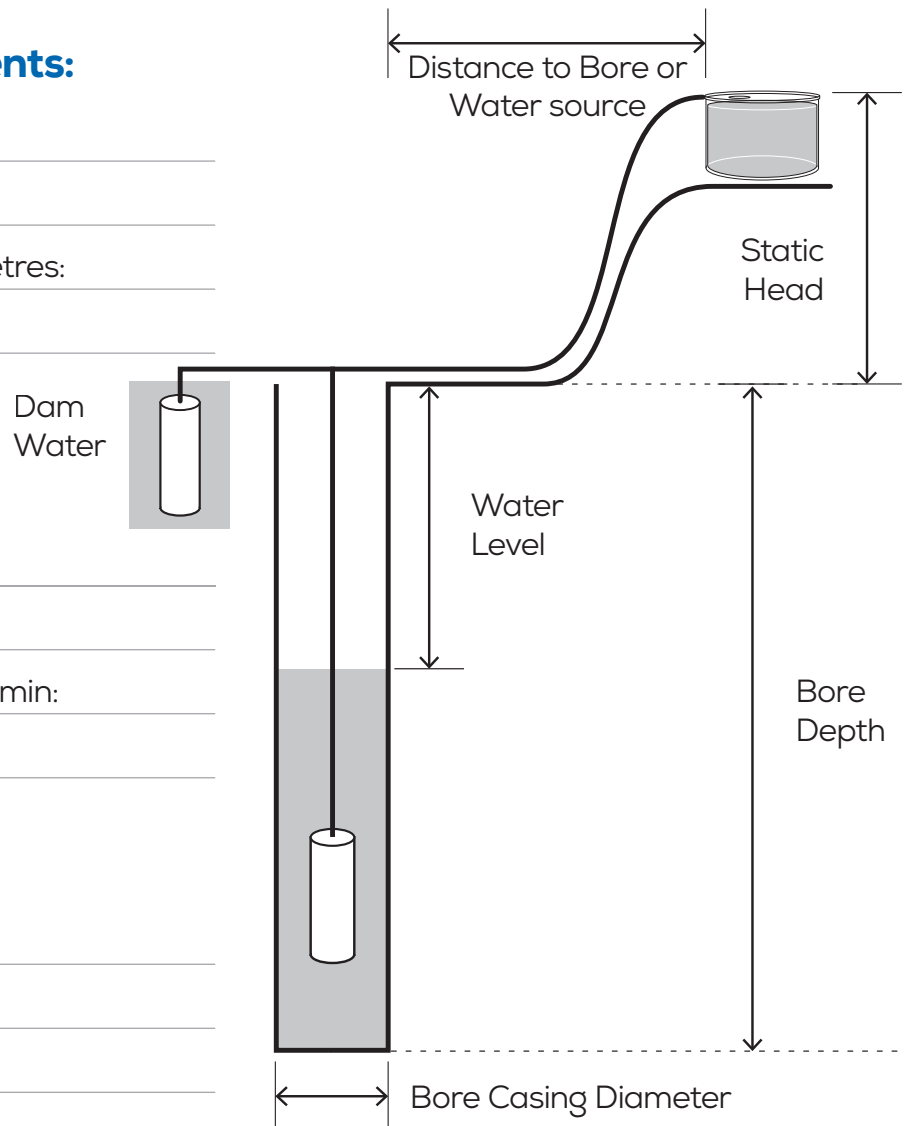
Water Pumping Level metres: _____

Bore Depth metres: _____

Bore / Source Capacity Litre / min: _____

Bore Casing Diameter: _____

Notes



Customer Information

Name: _____ Date: _____

Location: _____

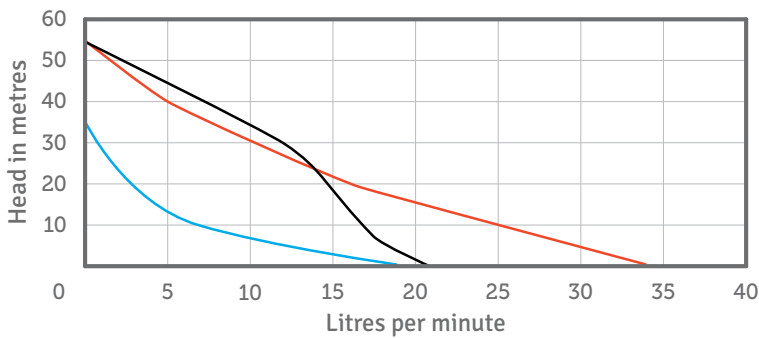
Phone: _____ Email: _____

Melbourne: Tel: 03 9426 3400 orders@orangepumps.com

Perth: Tel: 08 9250 2397 perth@orangepumps.com.au

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HS15-80 Technical Data Sheet



Specifications

Diameter: 3 inch
 Outlet: 3/4 inch
 Submergence: 50 metres
 Power: 210 Watts
 Volts Motor: 36 Volts
 Volts Input Max: 100 Volts
 Current Input Max: 12 Amp

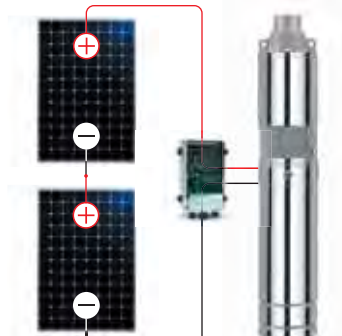


1 Panel



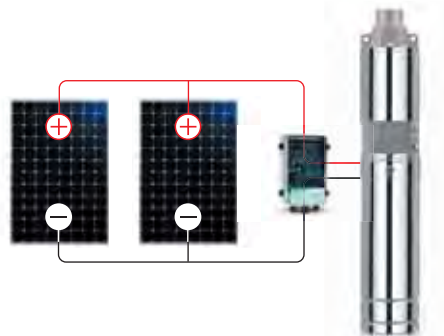
Metres	lpm	Volt DC	Amps
35	0	27	9
20	3	26	8
10	7	25	7.2
0	20	33	5.8

2 Panel Series



Metres	lpm	Volt DC	Amps
55	0	52	9
40	5	53	5.8
30	11	53	5.8
20	16	53	5.6
10	24	55	5.5
0	35	59	5.4

2 Panel Parallel



Metres	lpm	Volt DC	Amps
55	0	25	10
40	7	31	8.7
30	10	32	7.4
20	13	32	6.3
10	15	33	5.4
0	21	33	3.6

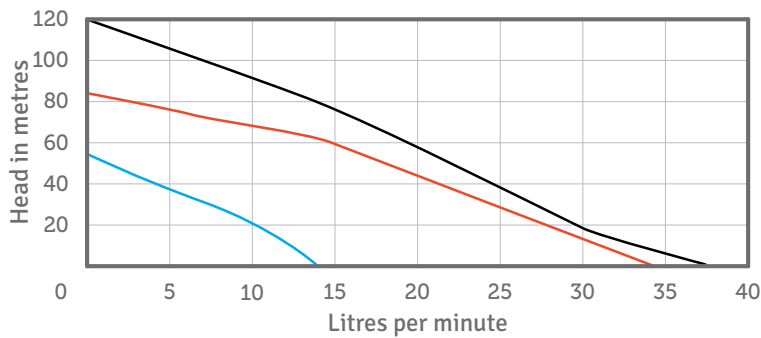
Solar Panel: 285 Watts, Vmp: 31.4 V, Voc: 38.1 V, Current Imp: 9.08 Amps

Melbourne: Tel: 03 9426 3400 orders@orange pumps.com
 25 Lionel Road, Mount Waverley VIC 3149

Perth: Tel: 08 9250 2397 perth@orange pumps.com
 U6, 14 Stanhope Gardens, Midvale WA 6056

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HS20-100 Technical Data Sheet

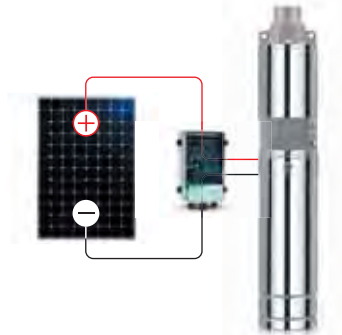


Specifications

Diameter: 3 inch
 Outlet: 3/4 inch
 Submergence: 50 metres
 Power: 500 Watts
 Volts Motor: 48 Volts
 Volts Input Max: 100 Volts
 Current Input Max: 12 Amp

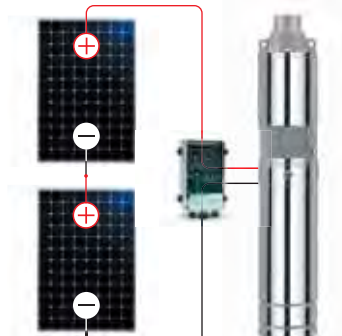


1 Panel



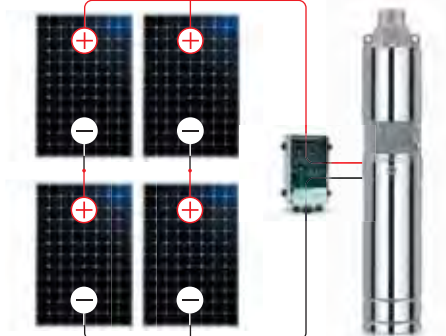
Metres	lpm	Volt DC	Amps
55	0	29	7.3
40	5	31	6
20	10	32	4.7
10	13	32	3.7
0	14	33	3

2 Panel Series



Metres	lpm	Volt DC	Amps
85	0	52	8.4
60	15	58	8.4
40	22	62	6.6
20	27	64	5
0	35	66	2.5

4 Panel Series & Parallel



Metres	lpm	Volt DC	Amps
120	0	63	11
80	14	66	9.5
60	19	67	7.8
40	25	68	6
0	37	69	2.3

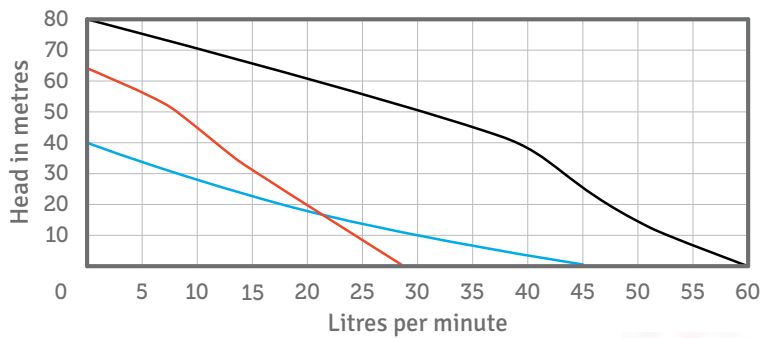
Solar Panel: 285 Watts, Vmp: 31.4 V, Voc: 38.1 V, Current Imp: 9.08 Amps

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HS40-70 Technical Data Sheet

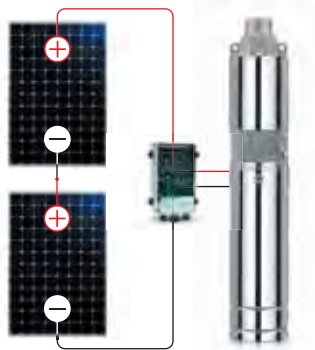


Specifications

Diameter: 4 inch
 Outlet: 1 inch
 Submergence: 50 metres
 Power: 500 Watts
 Volts Motor: 48 Volts
 Volts Input Max: 100 Volts
 Current Input Max: 12 Amp

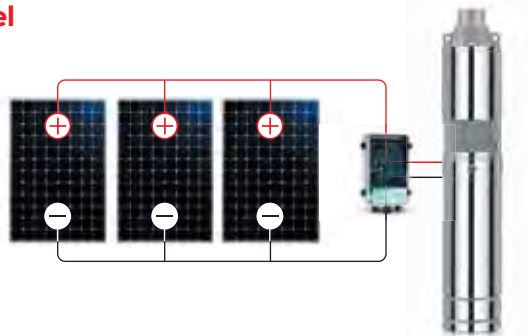


2 Panel Series



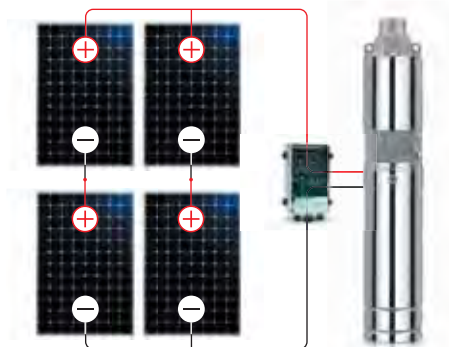
Metres	lpm	Volt DC	Amps
40	0	52	6.8
30	8	54	4.4
20	19	54	4.6
10	27	54	1.3
0	46	54	0.8

3 Panel Parallel



Metres	lpm	Volt DC	Amps
65	0	31	9.4
55	5.6	32	11.3
40	12	33	8.8
20	20	34	6
0	29	35	3

4 Panel Series & Parallel



Metres	lpm	Volt DC	Amps
80	0	57	12
60	24	62	11
40	40	64	10
20	46	65	8.2
0	60	68	4

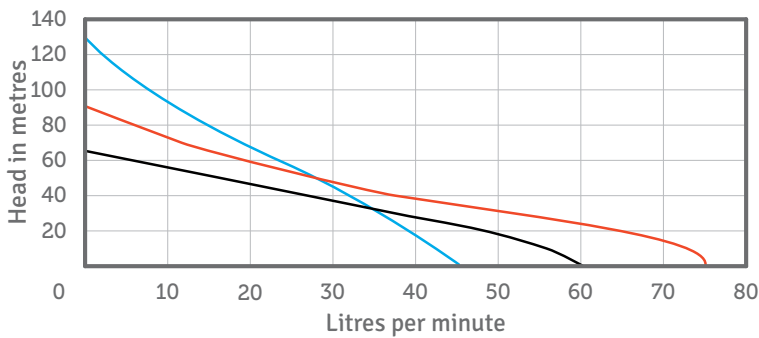
Solar Panel: 285 Watts, Vmp: 31.4 V, Voc: 38.1 V, Current Imp: 9.08 Amps

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HS40-140 Technical Data Sheet

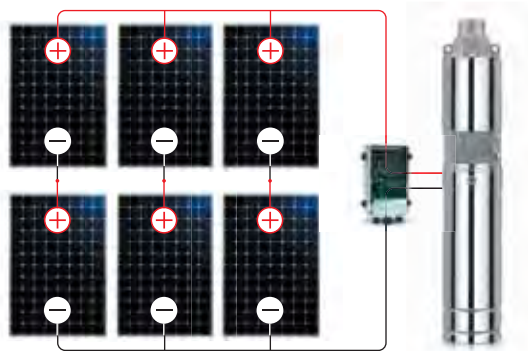


Specifications

Diameter: 4 inch
 Outlet: 1 inch
 Submergence: 50 metres
 Power: 1000 Watts
 Volts Motor: 110 Volts
 Volts Input Max: 200 Volts
 Current Input Max: 12 Amp

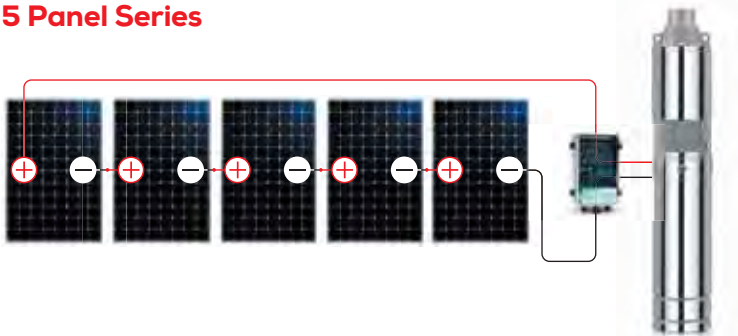


6 Panel Series & Parallel



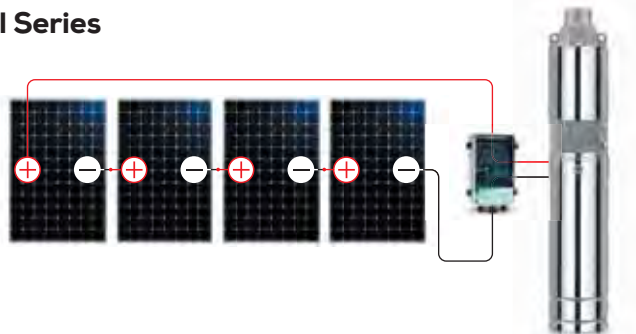
Metres	lpm	Volt DC	Amps
130	0	93	12
100	8.5	96	10
80	16	98	7
40	31	101	4.5
0	46	104	2

5 Panel Series



Metres	lpm	Volt DC	Amps
90	0	134	5.5
70	14	136	5.5
50	30	136	5.8
30	50	142	5.8
0	75	168	3.8

4 Panel Series



Metres	lpm	Volt DC	Amps
65	0	108	4.9
40	26	108	4.7
20	46	127	4.5
10	55	132	3.4
0	60	136	2.6

Solar Panel: 285 Watts, Vmp: 31.4 V, Voc: 38.1 V, Current Imp: 9.08 Amps

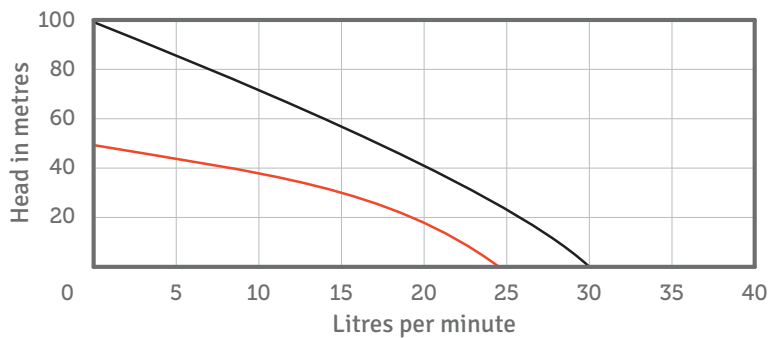
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HydroTron

Solar Centrifugal Pump

HSC30 l/min – 70 Metres



Specification

Power: 500 Watts
 Diameter: 3 inch
 Volts Motor: 48 DC
 Open Circuit Volts: 100 Voc
 Max Load: 12 Amps
 Outlet: 1 inch
 Impeller Floating Stack Noryl

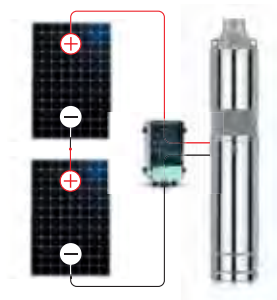
Motor Design

Motor Body: 304SS
 Brushless DC 3 phase motor
 Permanent Magnet
 Food grade oil
 Submergence: 50m

Pump Includes

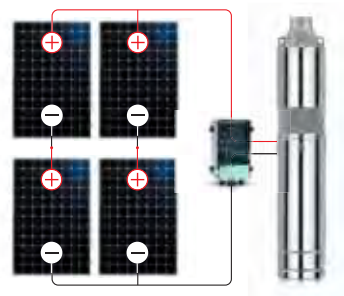
Low level water sensor 40m
 Tank fill water level sensor 10m
 MC4 connection cable 2m
 Pole mount bracket
 Control box MPPT

2 Panel Series



Metres	l/min	Volt DC	Amps
50	0	54	7.2
40	10	53.8	7.2
20	18	53.8	6.6
10	22	53.8	6.6
0	24	53	6.6

4 Panel Series & Parallel



Metres	l/min	Volt DC	Amps
100	0	56	10.8
80	7	56	10.8
60	14	56	11.6
40	20	56	11.4
20	26	56	11.4
0	30	56.8	10.8

Solar Panel: 315 Watts, Vmp: 33.1 V, Voc: 39.9 V, Current Imp: 9.52 Amps

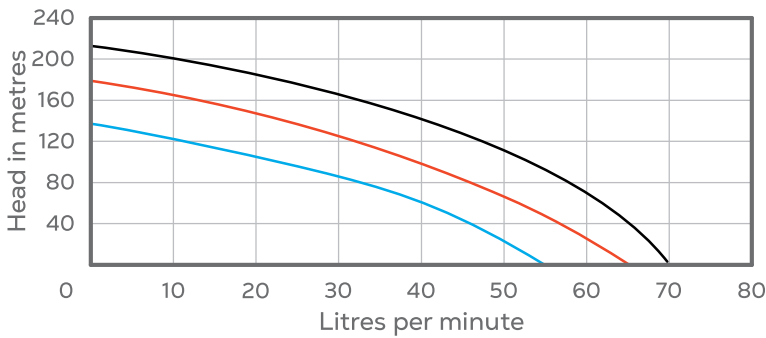
Melbourne: Tel: 03 9426 3400 orders@orangepumps.com

Perth: Tel: 08 9250 2397 perth@orangepumps.com.au

HSC50-220

Technical Data Sheet

HSC50 l/min – 220 Metres

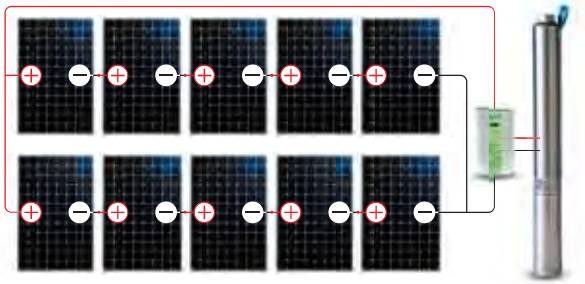


Specifications

Power: 2200 Watts
 Diameter: 4 inch
 Volts Motor: 220 DC
 Open Circuit Volts: 350 Voc
 Max Load: 12 Amps
 Outlet: 1¼ inch
 Impeller Floating Stack Noryl

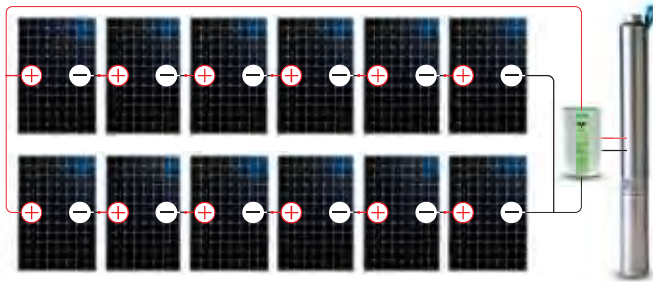


10 Panel Series & Parallel



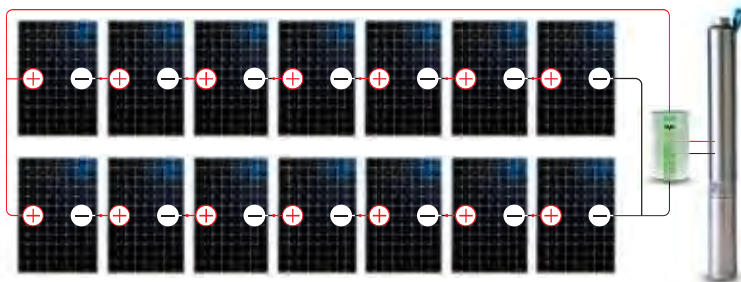
Metres	lpm	Volt DC	Amps
140	0	165	7
100	27	164	7.6
60	41	163	7.8
20	53	163	7.8

12 Panel Series & Parallel



Metres	lpm	Volt DC	Amps
180	0	190	10.8
150	21	190	11.6
100	40	187	11.7
60	51	187	10.2
20	61	187	10

14 Panel Series & Parallel



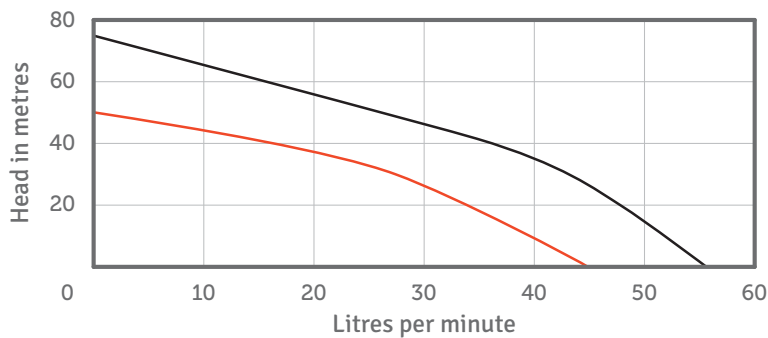
Metres	lpm	Volt DC	Amps
210	0	228	8.3
180	18	227	9.6
150	32	227	10
100	50	227	10
60	61	227	9.6

Solar Panel: 315 Watts, Vmp: 33.1 V, Voc: 39.9 V, Current Imp: 9.52 Amps

HydroTron

Solar Centrifugal Pump

HSC55 l/min – 50 Metres



Specification

Power: 500 Watts
 Diameter: 3 inch
 Volts Motor: 48 DC
 Open Circuit Volts: 100 Voc
 Max Load: 12 Amps
 Outlet: 1 inch
 Impeller Floating Stack Noryl

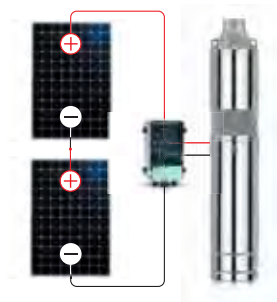
Motor Design

Motor Body: 304SS
 Brushless DC 3 phase motor
 Permanent Magnet
 Food grade oil
 Submergence: 50m

Pump Includes

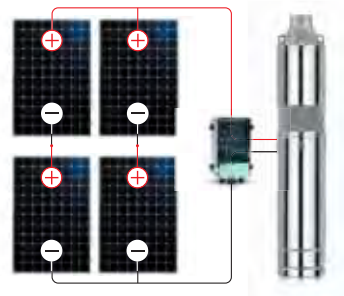
Low level water sensor 40m
 Tank fill water level sensor 10m
 MC4 connection cable 2m
 Pole mount bracket
 Control box MPPT

2 Panel Series



Metres	l/min	Volt DC	Amps
50	0	55	8
40	17	54	8
30	27	54	8
10	41	54	8
2	45	54	8

4 Panel Series & Parallel



Metres	l/min	Volt DC	Amps
75	0	62	10
60	15	62	10
40	37	62	10
20	48	61	10
2	56	61	9.8

Solar Panel: 315 Watts, Vmp: 33.1 V, Voc: 39.9 V, Current Imp: 9.52 Amps

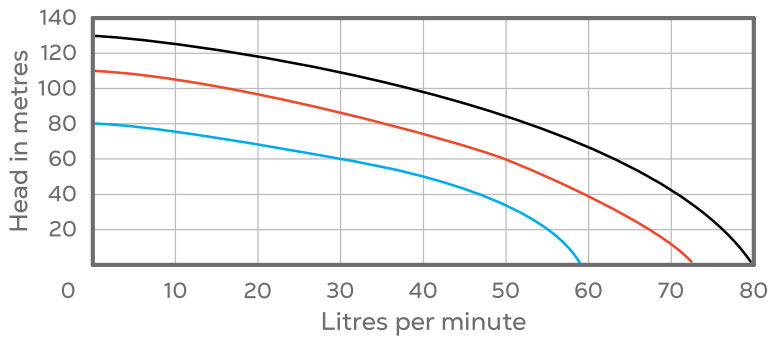
Melbourne: Tel: 03 9426 3400 orders@orangepumps.com

Perth: Tel: 08 9250 2397 perth@orangepumps.com.au

HSC70-100

Technical Data Sheet

HSC70 l/min – 100 Metres

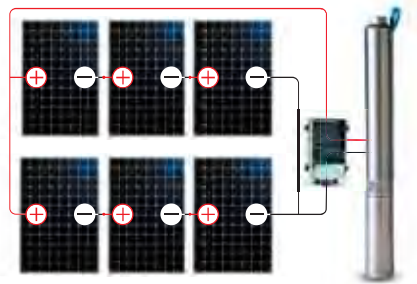


Specifications

Power: 1000 Watts
 Diameter: 4 inch
 Volts Motor: 110 DC
 Open Circuit Volts: 200 Voc
 Max Load: 12 Amps
 Outlet: 1¼ inch
 Impeller Floating Stack Noryl

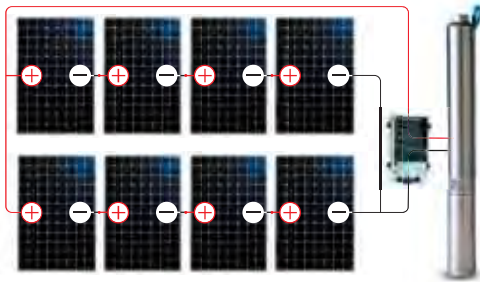


6 Panel Series & Parallel



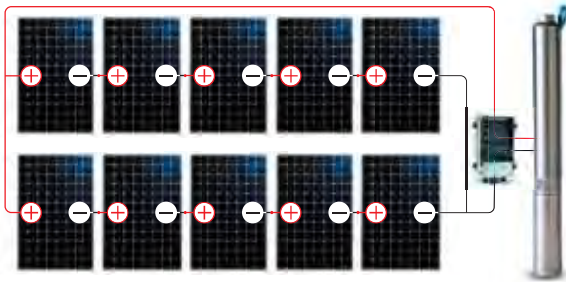
Metres	lpm	Volt DC	Amps
80	0	93	7.4
60	29	93	8.8
40	47	93	9.7
20	58	93	10

8 Panel Series & Parallel



Metres	lpm	Volt DC	Amps
110	0	120	10.5
80	29	118	11.1
60	48	119	11.3
40	60	120	11.3
20	72	120	11.7

10 Panel Series & Parallel



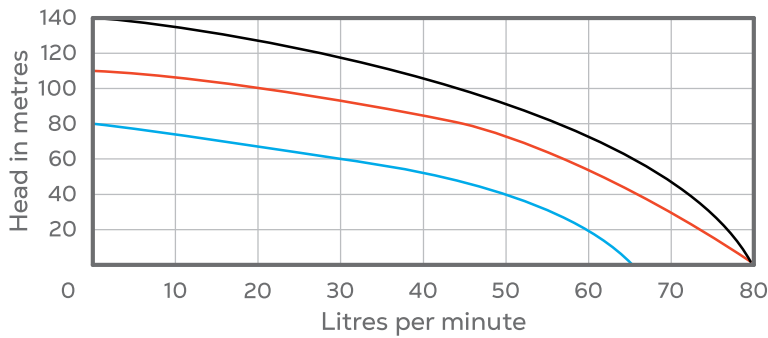
Metres	lpm	Volt DC	Amps
130	0	150	12
100	41	150	12
80	52	150	11
60	64	150	11
20	81	150	11

Solar Panel: 315 Watts, Vmp: 33.1 V, Voc: 39.9 V, Current Imp: 9.52 Amps

HSC80-130

Technical Data Sheet

HSC80 l/min – 130 Metres

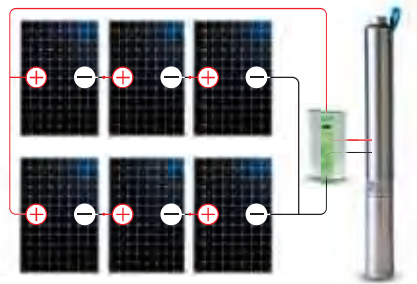


Specifications

Power: 1500 Watts
 Diameter: 4 inch
 Volts Motor: 150 DC
 Open Circuit Volts: 250 Voc
 Max Load: 12 Amps
 Outlet: 1¼ inch
 Impeller Floating Stack Noryl

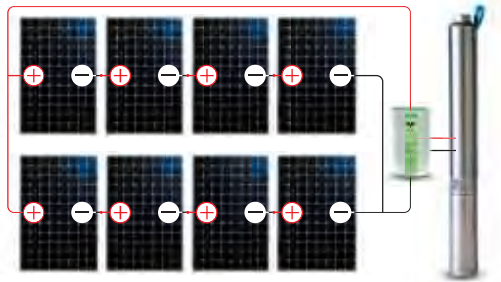


6 Panel Series & Parallel



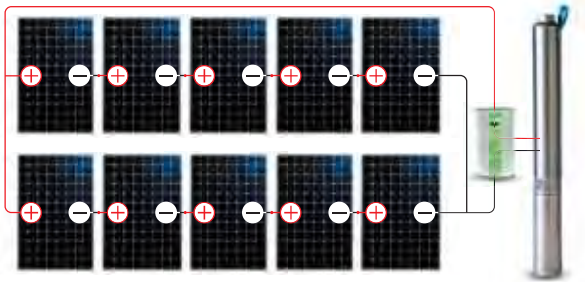
Metres	lpm	Volt DC	Amps
80	0	95	10
60	43	96	10.1
40	55	96	10.1
20	66	96	10.2

8 Panel Series & Parallel



Metres	lpm	Volt DC	Amps
120	0	129	9
80	46	127	10
60	58	127	10.1
20	79	127	10.2

10 Panel Series & Parallel



Metres	lpm	Volt DC	Amps
140	0	158	9.2
100	43	157	9.4
60	66	157	9.6
40	80	157	9.8
20	80	157	9.8

Solar Panel: 315 Watts, Vmp: 33.1 V, Voc: 39.9 V, Current Imp: 9.52 Amps