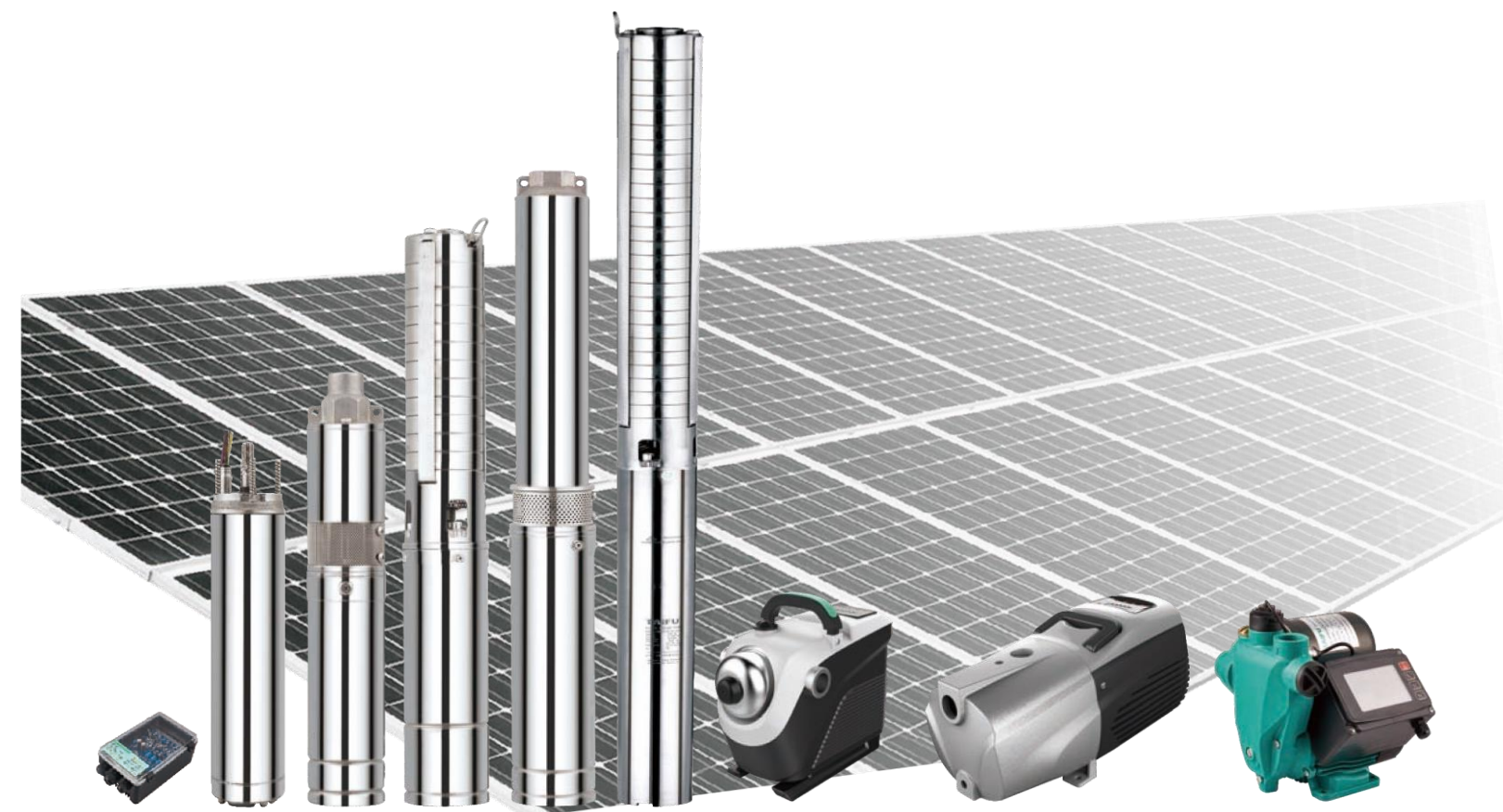




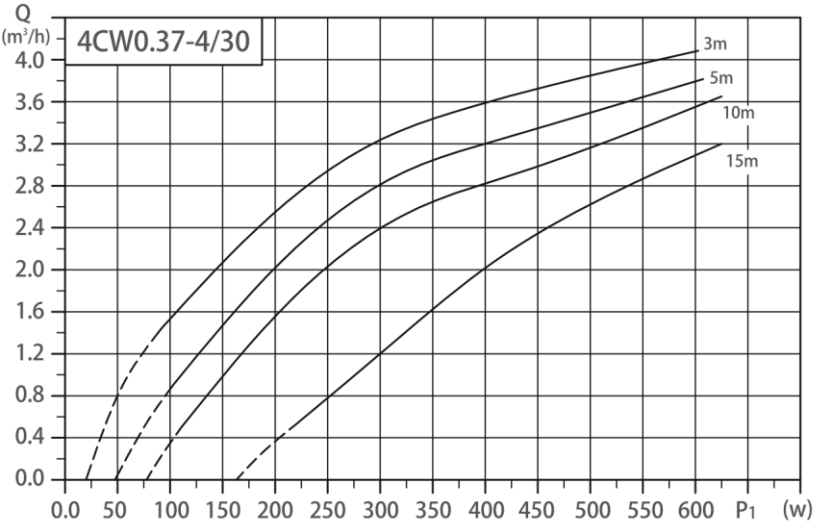
DC Solar Pump
AC / DC Convertible Pump



Pump Performance

Model	Voltage	Power		Max Flow Rate	Max Head	Outlet Size	Diameter
	V	kW	HP	(m³/h)	(m)	(In)	(In)
4CW0.37-4/30	DC:90~360V AC:90~240V/50Hz,60Hz	0.37	0.5	4	30	1.25"	4"
4CW0.37-7/25		0.37	0.5	7	25	1.5"	4"
4CW0.55-4/54		0.55	0.75	4	54	1.25"	4"
4CW0.55-7/40		0.55	0.75	7	40	1.5"	4"
4CW0.75-7/48		0.75	1.0	7	48	1.5"	4"
4CW0.75-4/96		0.75	1.0	4	96	1.25"	4"
4CW1.1-4/126		1.1	1.5	4	126	1.25"	4"
4CW1.1-12/45		1.1	1.5	12	45	2"	4"
4CW1.1-13/40		1.1	1.5	13	40	2"	4"
4CW1.5-6/120		1.5	2.0	6	120	1.5"	4"
4CW1.5-13/70		1.5	2.0	13	70	2"	4"
4CW2.2-12/80		2.2	3.0	12	80	2"	4"
4CW2.2-18/46		2.2	3.0	18	46	2"	4"

Performance Curve

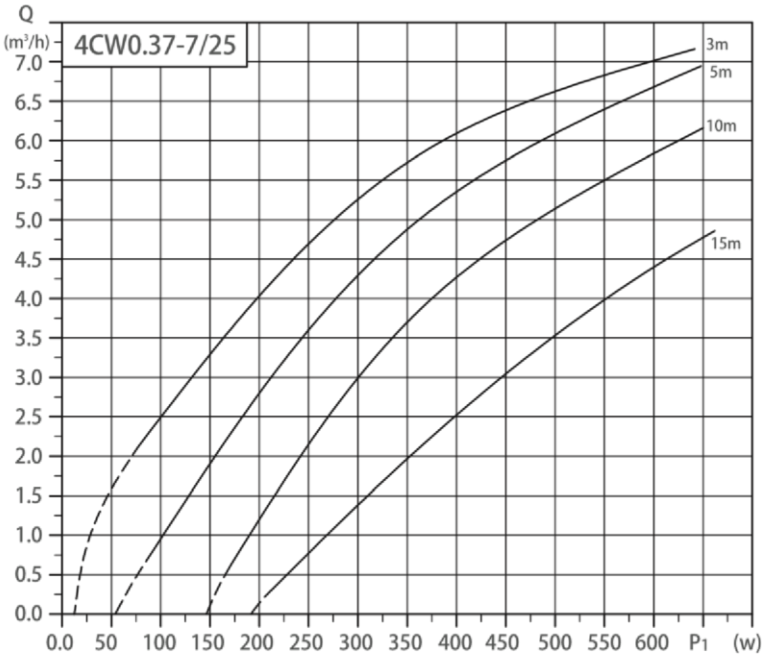




The selection of solar panels for solar pumps

Max.Pump Power(kw)	Max.Motor Power(HP)	Solar Panel(kw)	Recommend Solar Panel	Connection	Max Voc
0.37	0.5	1.5 x pump power	250W x 2	in series	380
0.55	0.75	1.5 x pump power	250W x 3	in series	380
0.75	1	1.5 x pump power	250W x 4	in series	380
1.1	1.5	1.5 x pump power	250W x 6	in series	380
1.5	2	1.5 x pump power	250W x 9	in series	380
2.2	3	1.5 x pump power	250W x 12	in series	380

Performance Curve



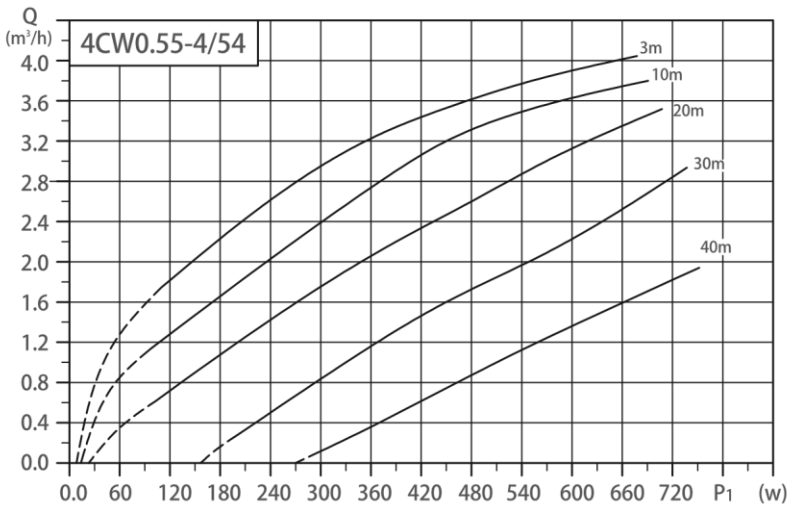
Pump Performance

Model	Voltage	Power		Max Flow Rate	Max Head	Outlet Size	Diameter
	V	kW	HP	(m³/h)	(m)	(In)	(In)
4CW0.37-4/30	DC:90~360V AC:90~240V/50Hz,60Hz	0.37	0.5	4	30	1.25"	4"

Performance Chart

Q H(m)	P1 (w) (m³/h)	600	550	500	450	400	370	300	250	200	150	100
15		3.0	2.9	2.6	2.3	2.0	1.8	1.2	0.8	-	-	-
10		3.5	3.3	3.1	3.0	2.9	2.7	2.4	2.1	1.7	1.0	-
5		3.8	3.7	3.5	3.3	3.2	3.1	2.8	2.5	2.0	1.5	-
3		4.1	4.0	3.8	3.7	3.6	3.5	3.2	3.0	2.6	2.1	1.5

Performance Curve



Pump Performance

Model	Voltage	Power		Max Flow Rate	Max Head	Outlet Size	Diameter
	V	kW	HP	(m³/h)	(m)	(In)	(In)
4CW0.37-7/25	DC:90~360V AC:90~240V/50Hz,60Hz	0.37	0.5	7	25	1.5"	4"

Performance Chart

Q H(m)	P1 (w) (m³/h)	600	550	500	450	400	370	300	250	200	150	100
15		4.4	4.0	3.6	3.1	2.5	2.2	1.4	0.7	-	-	-
10		5.8	5.5	5.2	4.7	4.3	4.0	3.0	2.1	1.3	-	-
5		6.6	6.4	6.1	5.7	5.3	5.1	4.2	3.6	2.7	1.8	0.8
3		7.0	6.8	6.6	6.4	6.1	5.8	5.2	4.7	4.1	3.2	2.5

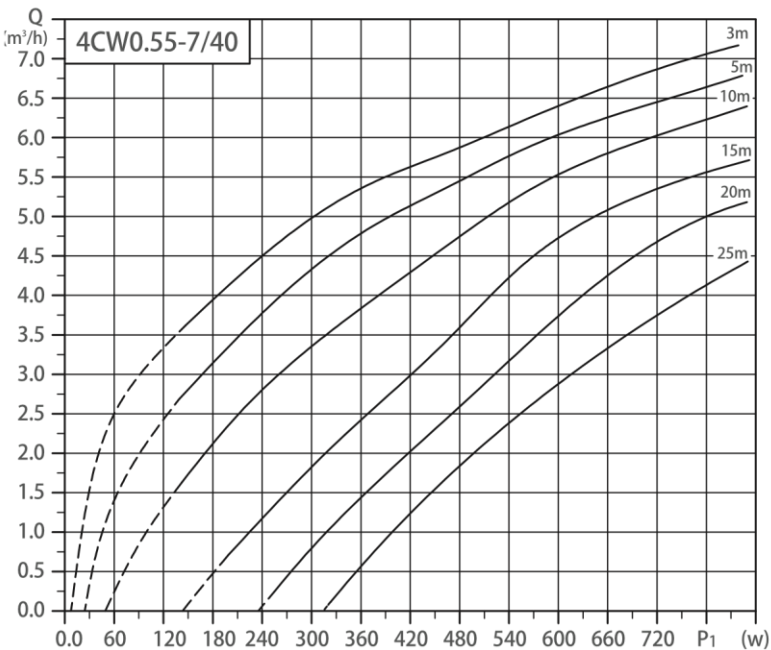
Pump Performance

Model	Voltage	Power		Max Flow Rate	Max Head	Outlet Size	Diameter
	V	kW	HP	(m³/h)	(m)	(In)	(In)
4CW0.55-4/54	DC:90~360V AC:90~240V/50Hz,60Hz	0.55	0.75	4	54	1.25"	4"

Performance Chart

Q H(m)	P1 (w) (m³/h)	720	660	600	550	480	420	370	300	240	180	120
40		2.8	1.6	1.3	1.1	0.9	0.6	0.4	0.2	-	-	-
30		2.9	2.5	2.2	2.0	1.7	1.5	1.2	0.9	0.5	-	-
20		-	3.3	3.1	2.9	2.5	2.3	2.1	1.7	1.4	1.1	0.9
10		-	3.7	3.6	3.5	3.3	3.1	2.8	2.4	2.0	1.7	1.3
3		-	4.0	3.8	3.7	3.6	3.4	3.3	2.7	2.6	2.2	1.8

Performance Curve



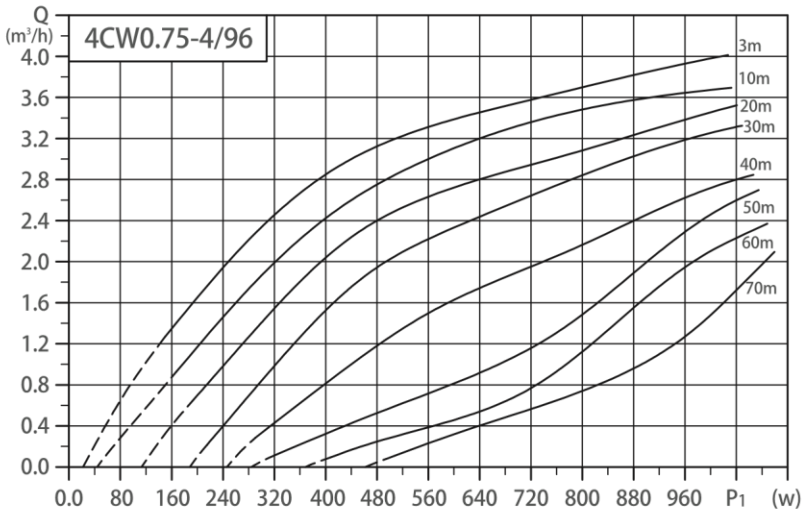
Pump Performance

Model	Voltage	Power		Max Flow Rate	Max Head	Outlet Size	Diameter
	V	kW	HP	(m³/h)	(m)	(In)	(In)
4CW0.55-7/40	DC:90-360V AC:90-240V/50Hz,60Hz	0.55	0.75	7	40	1.5"	4"

Performance Chart

Q H(m)	P1 (w) (m³/h)	780	720	660	600	550	480	420	370	300	240	180
25		4.1	3.7	3.2	2.8	2.4	1.8	1.2	0.6	-	-	-
20		5.0	4.6	4.2	3.7	3.2	2.6	2.0	1.4	0.7	-	-
15		5.6	5.4	5.1	4.7	4.2	3.6	3.0	2.4	1.7	1.2	-
10		6.2	6.0	5.7	5.5	5.2	4.7	4.2	3.8	3.3	2.8	2.1
5		6.6	6.4	6.2	6.0	5.8	5.4	5.2	4.8	4.2	3.7	3.2
3		7.1	6.7	6.6	6.4	6.2	5.8	5.6	5.4	4.9	4.5	4.0

Performance Curve

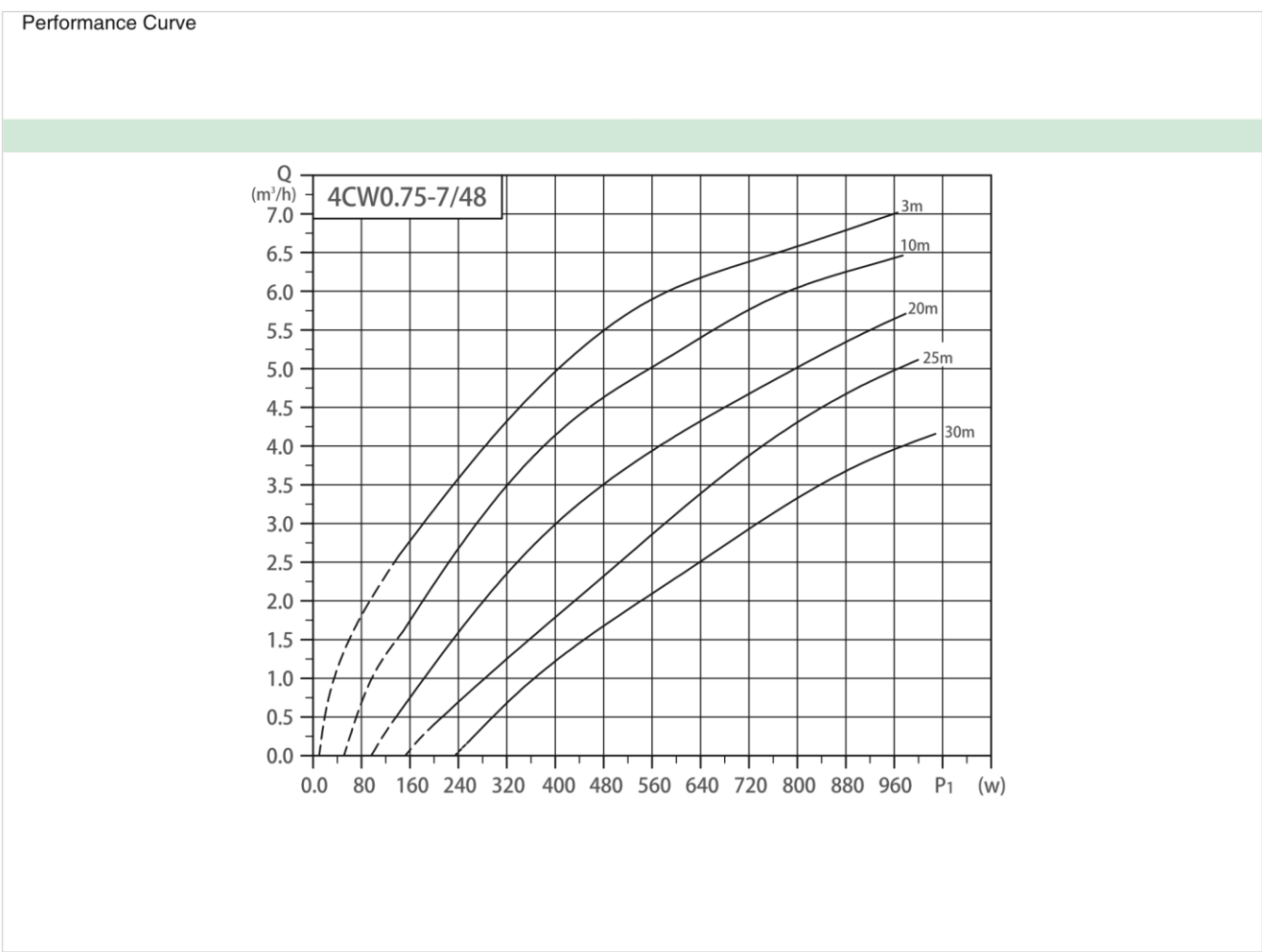


Pump Performance

Model	Voltage	Power		Max Flow Rate	Max Head	Outlet Size	Diameter
	V	kW	HP	(m³/h)	(m)	(In)	(In)
4CW0.75-4/96	DC:90-360V AC:90-240V/50Hz,60Hz	0.75	1	4	96	1.25"	4"

Performance Chart

Q H(m)	P1 (w) (m³/h)	1040	960	880	800	750	640	550	480	400	370	240
70		1.7	1.3	1.0	0.7	0.6	0.4	0.2	-	-	-	-
60		2.2	1.9	1.5	1.1	0.9	0.5	0.3	0.2	-	-	-
50		2.6	2.3	1.8	1.7	1.3	1.0	0.7	0.6	0.3	-	-
40		2.8	2.6	2.4	2.2	2.1	1.8	1.5	1.1	0.8	0.2	-
30		3.3	3.2	3.0	2.9	2.7	2.5	2.2	1.8	1.5	0.7	0.4
20		3.5	3.4	3.3	3.1	3.0	2.8	2.5	2.4	2.1	1.3	1.0
10		-	3.7	3.5	3.4	3.3	3.2	3.0	2.7	2.4	1.8	1.5
3		-	3.9	3.8	3.7	3.6	3.4	3.0	3.1	2.9	2.7	1.9

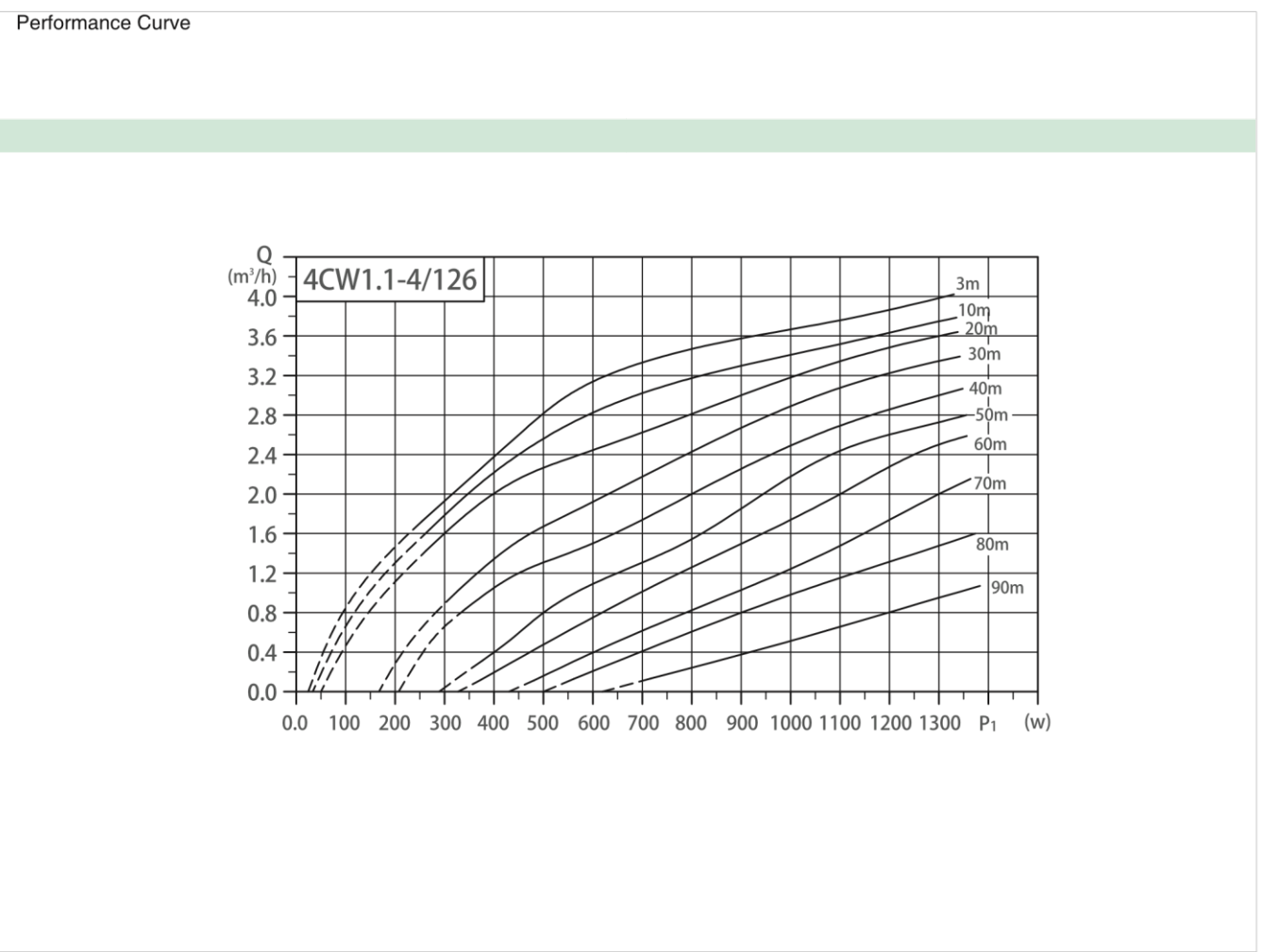


Pump Performance

Model	Voltage	Power		Max Flow Rate	Max Head	Outlet Size	Diameter
	V	kW	HP	(m³/h)	(m)	(In)	(In)
4CW0.75-7/48	DC:90~360V AC:90~240V/50Hz,60Hz	0.75	1	7	48	1.5"	4"

Performance Chart

Q H(m)	P1 (w) (m³/h)	960	880	800	750	640	550	480	400	370	240	160
30		3.9	3.6	3.3	3.1	2.5	2.0	1.7	1.2	1.1	–	–
25		5.0	4.7	4.3	4.0	3.4	2.7	2.4	1.7	1.6	0.6	–
20		5.7	5.3	5.0	4.7	4.3	3.8	3.5	3.0	2.7	1.6	0.7
10		6.4	6.2	6.1	5.8	5.4	5.0	4.6	4.2	3.9	2.6	1.7
3		7.0	6.7	6.6	6.4	6.2	5.7	5.5	4.9	4.7	3.6	2.7



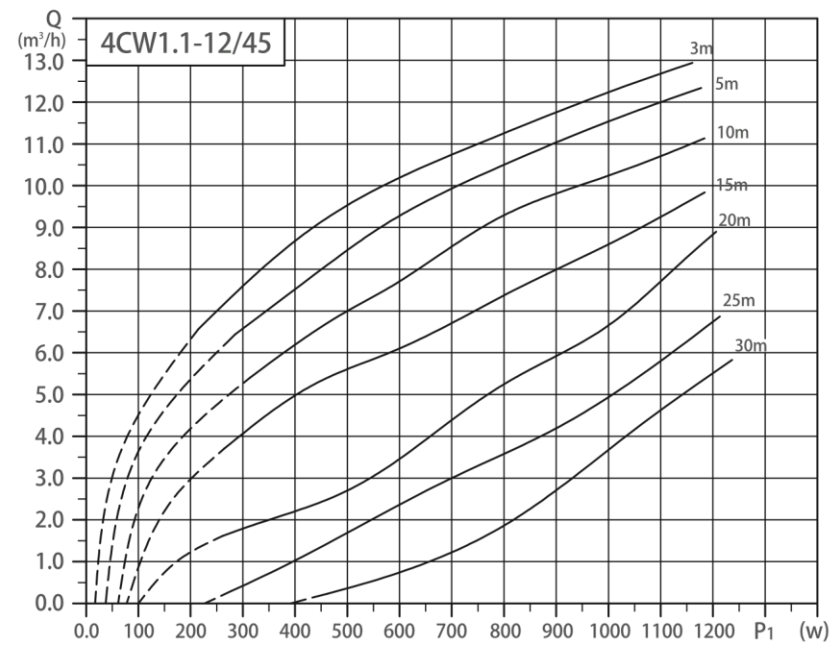
Pump Performance

Model	Voltage	Power		Max Flow Rate	Max Head	Outlet Size	Diameter
	V	kW	HP	(m³/h)	(m)	(In)	(In)
4CW1.1-4/126	DC:90~360V AC:90~240V/50Hz,60Hz	1.1	1.5	4	126	1.25"	4"

Performance Chart

Q H(m)	P1 (w) (m³/h)	1300	1200	1100	1000	900	800	700	600	500	400	300
90		0.9	0.8	0.7	0.5	0.4	0.3	–	–	–	–	–
80		1.5	1.3	1.1	1.0	0.8	0.6	0.4	0.2	–	–	–
70		2.0	1.7	1.5	1.3	1.0	0.9	0.6	0.4	0.2	–	–
60		2.5	2.3	2.0	1.8	1.5	1.3	1.0	0.8	0.5	0.2	–
50		2.7	2.6	2.5	2.2	1.9	1.5	1.3	1.1	1.0	0.8	–
40		3.0	2.9	2.7	2.5	2.3	2.0	1.8	1.5	1.3	1.1	–
30		3.3	3.2	3.1	2.9	2.7	2.4	2.2	1.8	1.6	1.3	–
20		3.6	3.5	3.4	3.1	3.0	2.8	2.6	2.5	2.3	2.0	1.6
10		3.8	3.7	3.5	3.4	3.3	3.2	3.0	2.8	2.6	2.2	1.8
3		4.0	3.9	3.8	3.7	3.5	3.4	3.3	3.1	2.8	2.4	2.2

Performance Curve



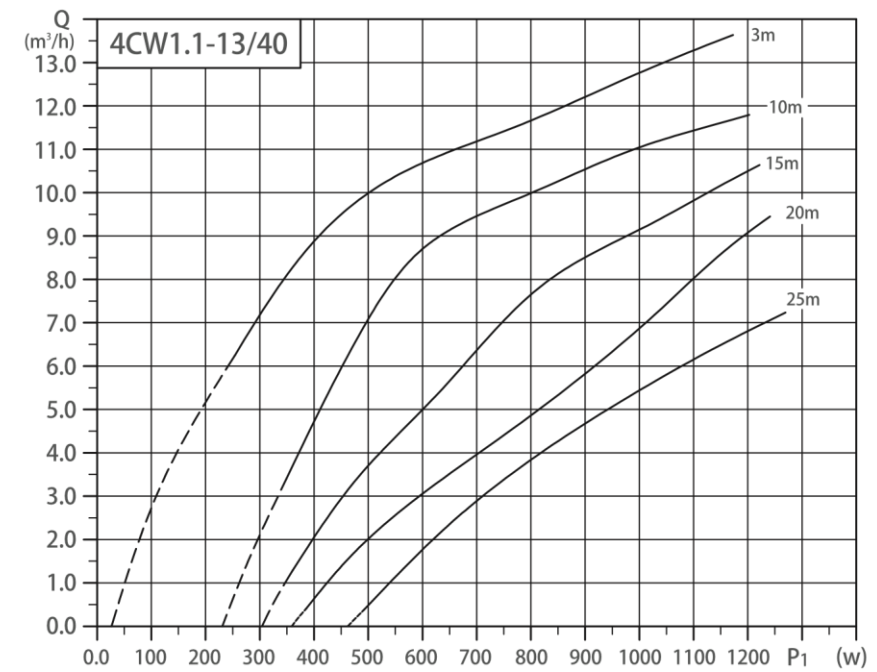
Pump Performance

Model	Voltage	Power		Max Flow Rate	Max Head	Outlet Size	Diameter
	V	kW	HP	(m³/h)	(m)	(In)	(In)
4CW1.1-12/45	DC:90~360V AC:90~240V/50Hz,60Hz	1.1	1.5	12	45	2"	4"

Performance Chart

Q H(m)	P1 (w) (m³/h)	1200	1100	1000	900	800	700	600	500	400	300	200
30		5.5	4.6	3.7	2.7	1.8	1.2	0.8	0.4	-	-	-
25		6.8	5.8	4.9	4.1	3.5	3.0	2.3	1.7	1.0	-	-
20		8.8	7.7	6.6	5.9	5.2	4.4	3.5	2.7	2.2	1.8	-
15		-	9.3	8.6	8.0	7.3	6.7	6.1	5.5	5.0	4.0	-
10		-	10.7	10.2	9.8	9.3	8.5	7.7	7.0	6.1	5.2	-
5		-	12.0	11.5	11.0	10.5	9.9	9.3	8.5	7.5	6.5	-
3		-	12.7	12.3	11.8	11.3	10.8	10.2	9.5	8.6	7.5	-

Performance Curve



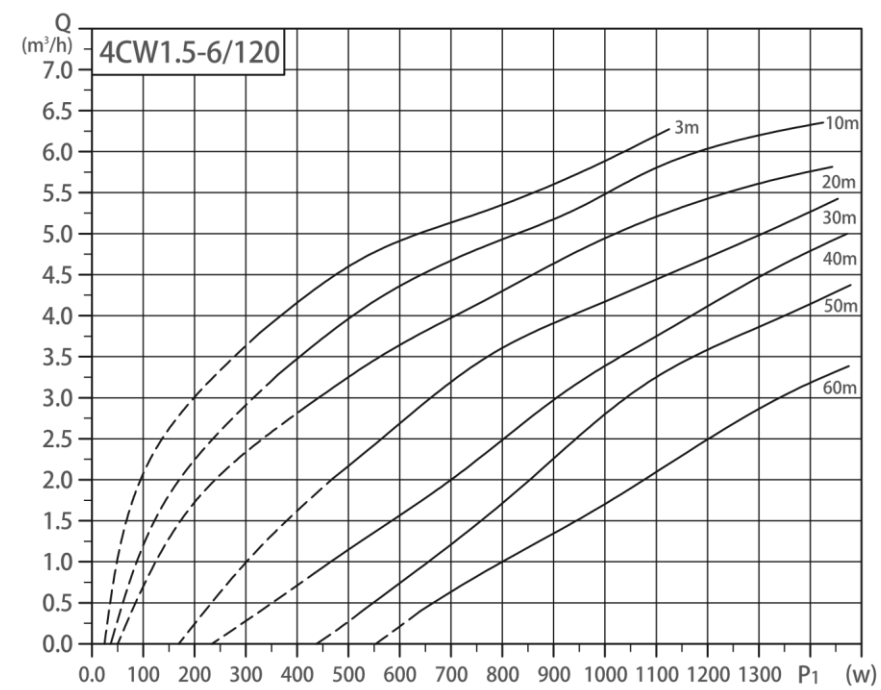
Pump Performance

Model	Voltage	Power		Max Flow Rate	Max Head	Outlet Size	Diameter
	V	kW	HP	(m³/h)	(m)	(In)	(In)
4CW1.1-13/40	DC:90~360V AC:90~240V/50Hz,60Hz	1.1	1.5	13	40	2"	4"

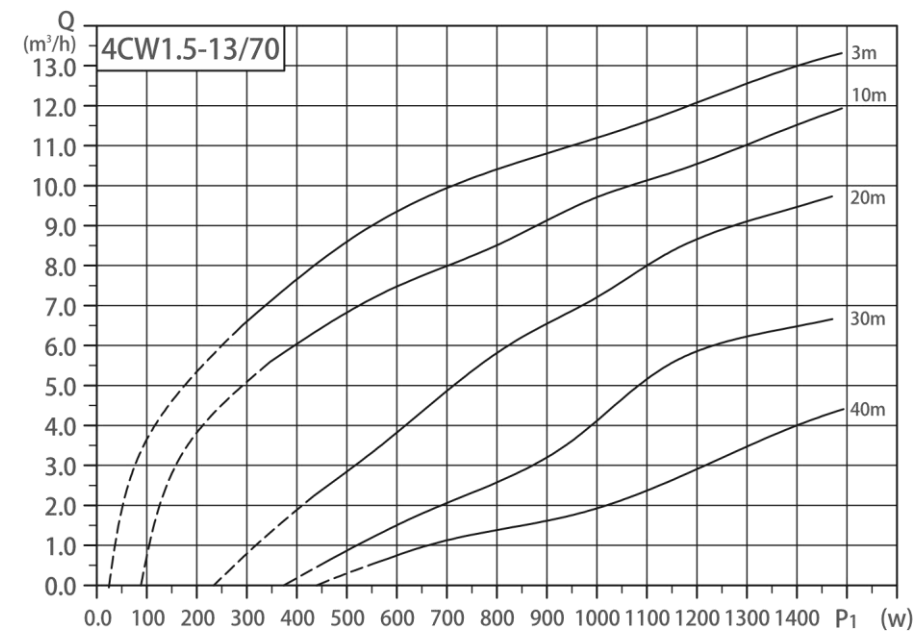
Performance Chart

Q H(m)	P1 (w) (m³/h)	1200	1100	1000	900	800	700	600	500	400	300
25		6.8	6.1	5.4	4.6	3.8	2.9	1.8	0.6	-	-
20		9.1	8.0	6.9	5.9	4.8	4.0	3.0	2.0	0.7	-
15		10.7	9.8	9.2	8.5	7.7	6.3	5.0	3.7	2.1	-
10		11.8	11.4	11.0	10.5	10.0	9.4	8.7	7.0	4.7	-
3		-	13.3	12.8	12.2	11.7	11.2	10.7	10.0	8.9	7.2

Performance Curve



Performance Curve



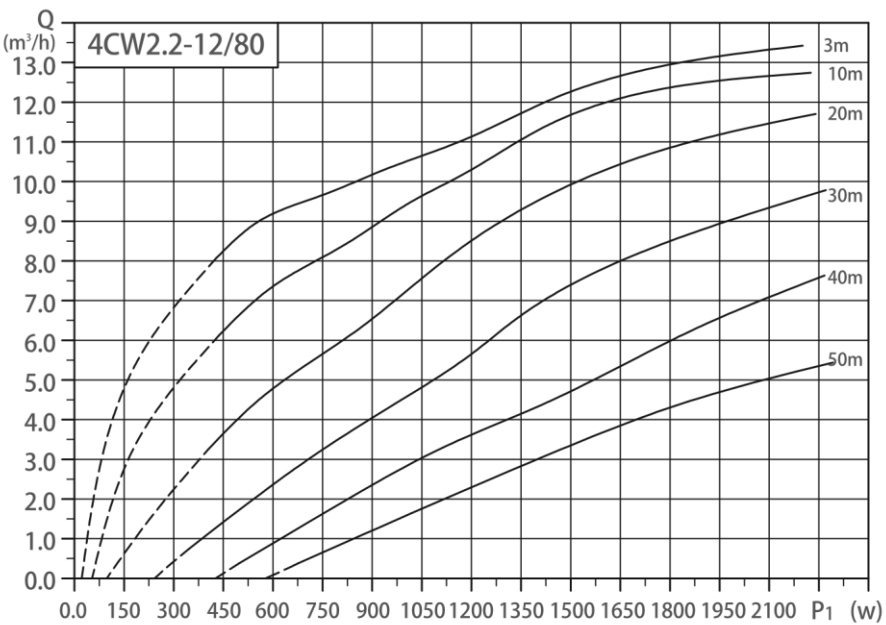
Pump Performance							
Model	Voltage	Power		Max Flow Rate	Max Head	Outlet Size	Diameter
	V	kW	HP	(m³/h)	(m)	(In)	(In)
4CW1.5–6/120	DC:90~360V AC:90~240V/50Hz,60Hz	1.5	2.0	6	120	1.5"	4"

Performance Chart											
Q H(m)	P1 (w) (m³/h)	1400	1300	1200	1100	1000	900	800	700	600	500
60		3.4	2.8	2.5	2.1	1.7	1.4	1.0	0.7	–	–
50		4.2	3.7	3.6	3.2	2.8	2.2	1.6	1.3	0.7	–
40		4.7	4.5	4.2	3.7	3.8	3.0	2.5	2.0	1.6	1.1
30		5.2	5.0	4.7	4.4	4.2	3.8	3.6	3.2	2.7	2.1
20		5.7	5.6	5.4	5.2	4.9	4.6	4.2	4.0	3.6	3.2
10		6.4	6.2	6.1	5.7	5.5	5.2	4.8	4.6	4.4	3.9
3		–	–	–	6.2	5.8	5.6	5.4	5.2	4.8	4.6

Pump Performance							
Model	Voltage	Power		Max Flow Rate	Max Head	Outlet Size	Diameter
	V	kW	HP	(m³/h)	(m)	(In)	(In)
4CW1.5–13/70	DC:90~360V AC:90~240V/50Hz,60Hz	1.5	2.0	13	70	2"	4"

Performance Chart											
Q H(m)	P1 (w) (m³/h)	1400	1300	1200	1100	1000	900	800	700	600	500
40		4.0	3.5	2.9	2.4	1.8	1.6	1.4	1.1	0.8	–
30		6.5	6.3	5.8	5.1	4.1	3.1	2.6	2.1	1.5	0.8
20		9.5	9.2	8.6	8.1	7.2	6.5	5.8	4.8	3.8	2.9
10		11.5	11.0	10.5	10.2	9.7	9.2	8.5	8.0	7.5	6.8
3		13.0	12.5	12.0	11.6	11.2	10.8	10.4	10.0	9.4	8.6

Performance Curve



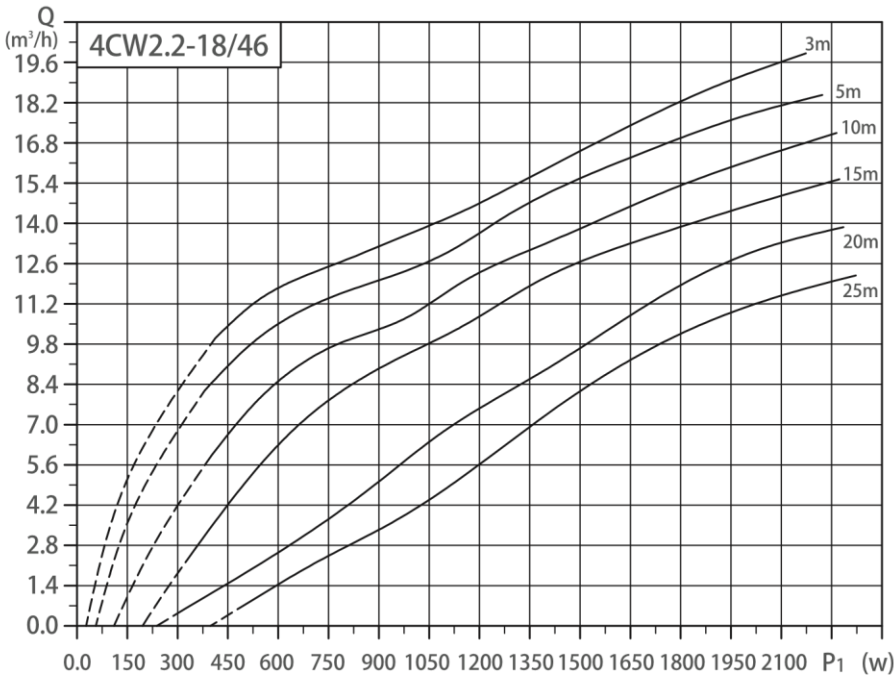
Pump Performance

Model	Voltage	Power		Max Flow Rate	Max Head	Outlet Size	Diameter
	V	kW	HP	(m³/h)	(m)	(In)	(In)
4CW2.2-12/80	DC:90-360V AC:90-240V/50Hz,60Hz	2.0	3.0	12	80	2"	4"

Performance Chart

Q H(m)	P1 (w) (m³/h)	2200	2100	1800	1650	1500	1200	1050	750	600	450
50		5.3	5.0	4.3	3.8	3.4	2.3	1.8	0.7	-	-
40		7.4	7.1	6.0	5.4	4.7	3.6	3.0	1.6	0.8	-
30		9.6	9.3	8.5	8.0	7.4	5.6	4.8	3.2	2.3	1.3
20		11.7	11.3	10.8	10.4	9.8	8.5	7.6	5.6	4.8	3.6
10		12.7	12.6	12.3	12.1	11.7	10.3	9.6	8.1	7.3	6.3
3		-	13.3	12.8	12.6	12.3	11.2	10.7	9.6	9.2	8.3

Performance Curve



Pump Performance

Model	Voltage	Power		Max Flow Rate	Max Head	Outlet Size	Diameter
	V	kW	HP	(m³/h)	(m)	(In)	(In)
4CW2.2-18/46	DC:90-360V AC:90-240V/50Hz,60Hz	2.2	3.0	18	46	2"	4"

Performance Chart

Q H(m)	P1 (w) (m³/h)	2200	2100	1800	1650	1500	1200	1050	750	600	450
25		12.0	11.5	10.0	9.3	8.0	5.6	4.5	2.5	1.4	-
20		13.6	13.2	12.0	10.8	9.5	7.5	6.5	3.8	2.5	1.6
15		15.4	15.0	13.6	13.2	12.8	10.8	9.8	7.7	6.5	4.2
10		17.1	16.5	15.3	14.6	13.7	12.0	11.2	9.5	8.6	6.6
5		18.5	18.0	17.0	16.4	15.6	13.5	12.9	11.5	10.6	9.0
3		-	19.6	18.2	17.5	16.5	14.7	13.8	12.3	11.8	11.0

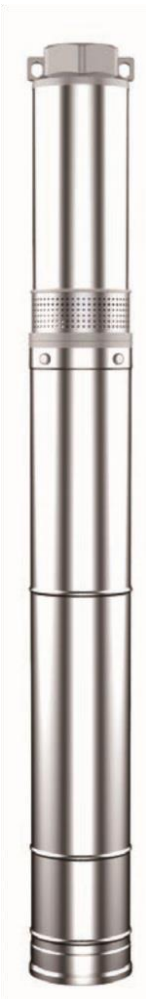
Structure

Advantage

- 1. Phase-lack operation
- 2. Wide voltage
- 3. High speed :4500–6000rpm
- 4. High head:>2times higher than normal pump
- 5. Dry–running protection
- 6. Convenient using: both AC and DC power available
- 7. High efficiency and energy saving: permanent magnetic brushless DC motor
- 8. High corrosion resistant: complete stainless steel material
- 9. Big flow: max flow>40m³/h
- 10. Small volume: half volume of normal pump

4GS-AC/DC

CONVERTIBLE ENERGY SAVING PUMP

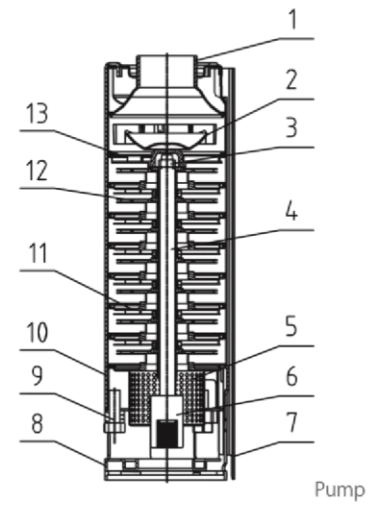


4CW

WATER FILLED MOTOR SOLAR PUMP

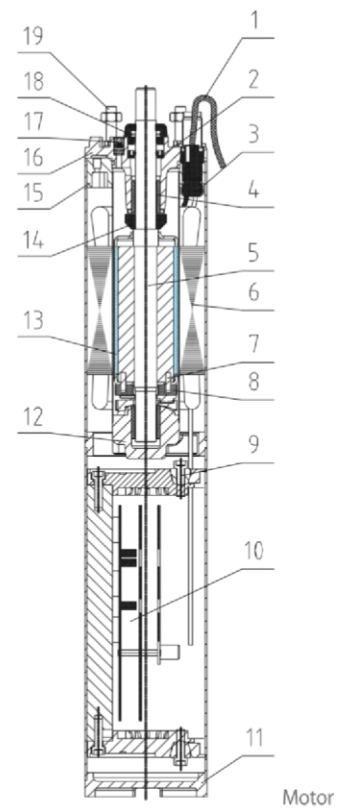
Performance Chart at n=2900rpm

Model	Power (kW)	Q (m³/h)	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	4.8	5.2
4GS2/6-1.5	1.5	H (m)	170	156	148	138	126	112	98	82	63	44	26	9
4GS2/8-2.2	2.2		225	213	193	181	169	153	135	112	92	67	36	12
4GS2/10-3	3		284	267	250	234	214	194	168	140	112	83	45	16
4GS2/13-4	4		367	352	328	279	268	240	205	170	131	95	58	20
4GS2/17-5.5	5.5		479	460	418	375	343	302	262	217	168	110	67	26



Pump

No	Spare Parts	Material
1	Outlet	Stainless Steel
2	Valve	Stainless Steel
3	Nut	Stainless Steel
4	Shaft	Stainless Steel
5	Shielding	Stainless Steel
6	Bearing	Stainless Steel
7	Wire clamp	Stainless Steel
8	Joint	Stainless Steel
9	Bolt	Stainless Steel
10	Rod	Stainless Steel
11	Volute	Stainless Steel
12	Impeller	Stainless Steel
13	Bracket	Stainless Steel



Motor

No	Spare Parts	Material
1	Cable	
2	Mechanical seal	Nitrile-Butadiene Rubber
3	Inner plug	
4	Graphite static ring	Impregnated Graphite
5	Rotor	Stainless Steel
6	Coil	
7	Dowel pin	Stainless Steel
8	Bearing	
9	Bolt	Stainless Steel
10	Controller	
11	End cover	Stainless Steel
12	Lower bearing seat	Stainless Steel

4GS2/24-7.5	7.5		676	639	597	536	491	444	381	310	271	190	89	36
4GS2/30-11	11		845	799	746	670	614	556	476	388	338	238	105	45

13	Magnetic steel	
14	Positioning set	Plastic
15	ange	Stainless Steel
16	Upper bearing seat	Stainless Steel
17	Valve	
18	Sand proof shield	Nitrile-Butadiene Rubber
19	Bolt	Stainless Steel