



## WATER FILLED MOTOR SOLAR PUMP

- BUILT-IN CONTROLLER
- EXTERNAL CONTROLLER



**ZHEJIANG DINGFENG ELECTRICAL APPLIANCE CO., LTD.**

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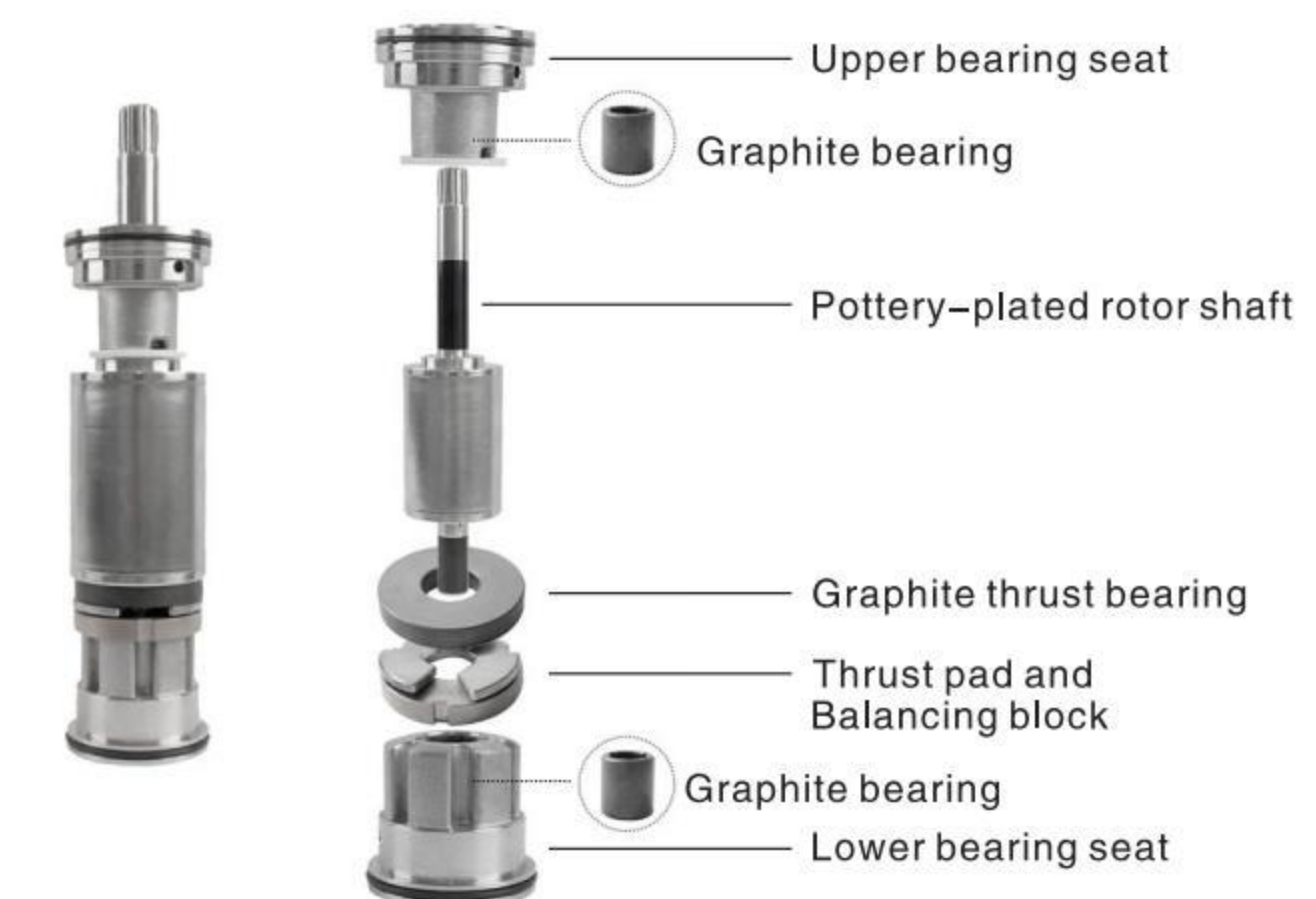
## ABOUT US

Zhejiang Dingfeng Electrical Appliance Co.,Ltd is a professional manufactory for DC solar pumps, AC/DC hybrid solar pumps, wide voltage solar pumps and water-filled motor solar pumps. Our head office is located in Wenling, Zhejiang, which is established in 1989. And we found our branch plant with 8900m<sup>2</sup> specially for solar pumps in 2016 in Ningbo, Zhejiang. We have high-precision and fully automatic processing machines, advanced assembling lines and testing machines to improve the quality and efficiency. And we set up our own electronic circuit board workshop to make sure every production process is under control. During the last year, we have exported nearly 190000 pcs of solar pumps all over the world, and got countless buyer praise. We never stop the steps to improve and innovate our solar pumps to reach the different market requirements.

## WATER FILLED MOTOR SOLAR PUMP WITH BUILT-IN CONTROLLER



- 1.Double inner and outer shielded deep well pump with field-oriented control function, is made of 304 stainless steel. More environmental protection, no oil pollution.
- 2.The whole 304 stainless steel rotor shaft with ceramic plating process at both ends, is more wear-resistant.
- 3.Water cooling structure of shielded motor, without mechanical seal, solves the problem of water leakage of traditional water pump motor.
- 4.180°C high temperature resistant copper wire, insulation class F.
- 5.Cold rolled 600 silicon steel sheet stator and rotor.
- 6.The magnet is made of 40SH aluminum iron boron, with a temperature resistance of 150°C.
- 7.Shielded motor adopts graphite bearing, which has strong self lubrication and corrosion resistance, and can operate reliably in the form of water lubrication.
- 8.Thrust bearing, providing strong and stable thrust.
- 9.Submerging depth can reach 150 meters.
- 10.The pump body, motor and controller, three sections of removable structure, is more convenient for maintenance.
- 11.Built-in intelligent controller.
- 12.Hybrid powered by AC and DC, AC/DC automatic switching.
- 13.In DC mode, the MPPT function can achieve over 99% efficiency.
- 14.In AC mode, the power factor correction function can make the power factor exceed 0.99.
- 15.Waterproof grade: IP68
- 16.Wide open circuit voltage range: DC60-440V, AC90-240V
- 17.Automatic startup and shutdown, without personnel on duty.
- 18.Soft start: no impact current, protect the water pump motor.
- 19.Over-voltage/undervoltage/over-current/phase loss/short circuit/water shortage/high temperature protection etc.
- 20.3 years warranty.

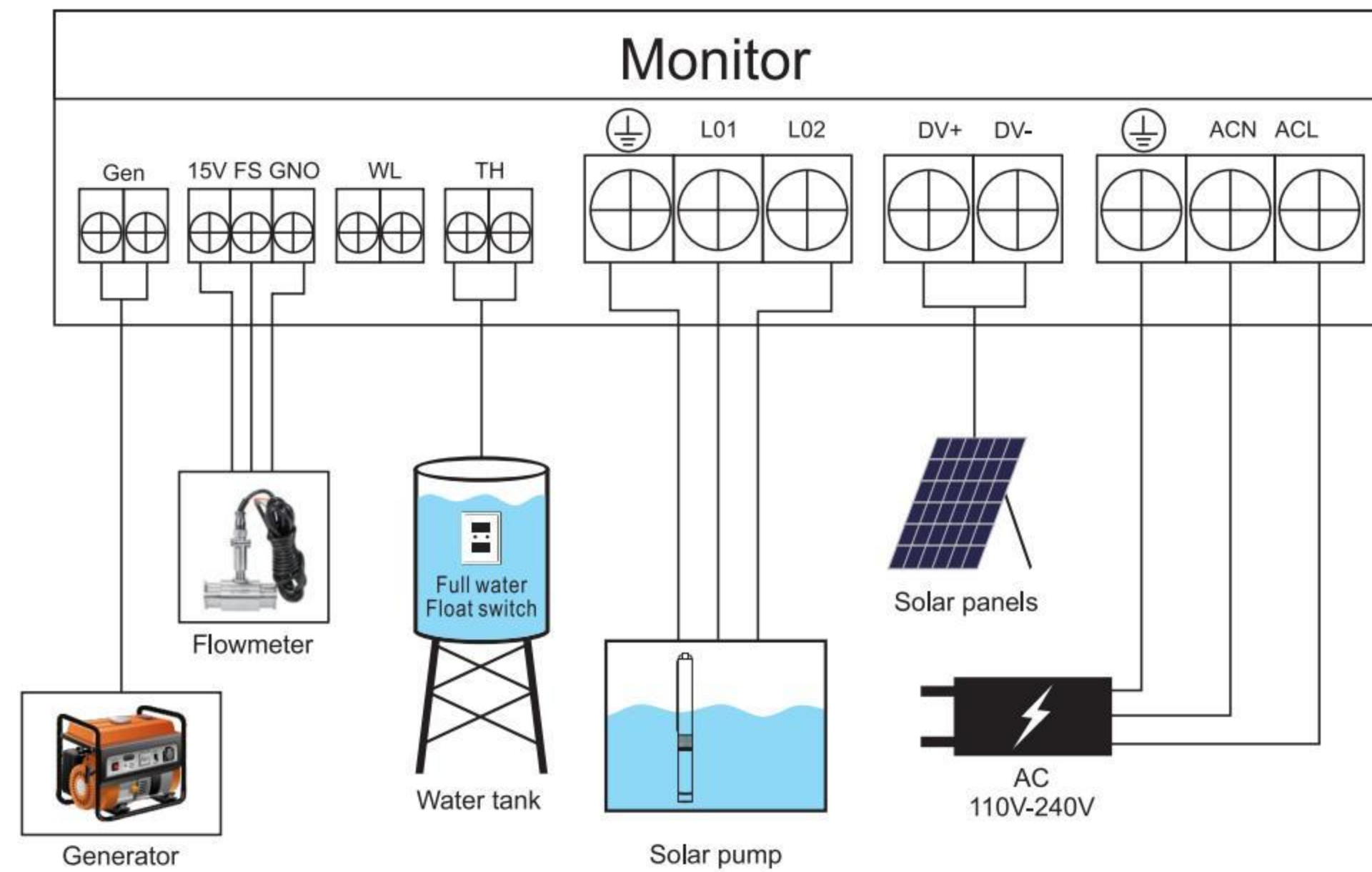


# MONITOR

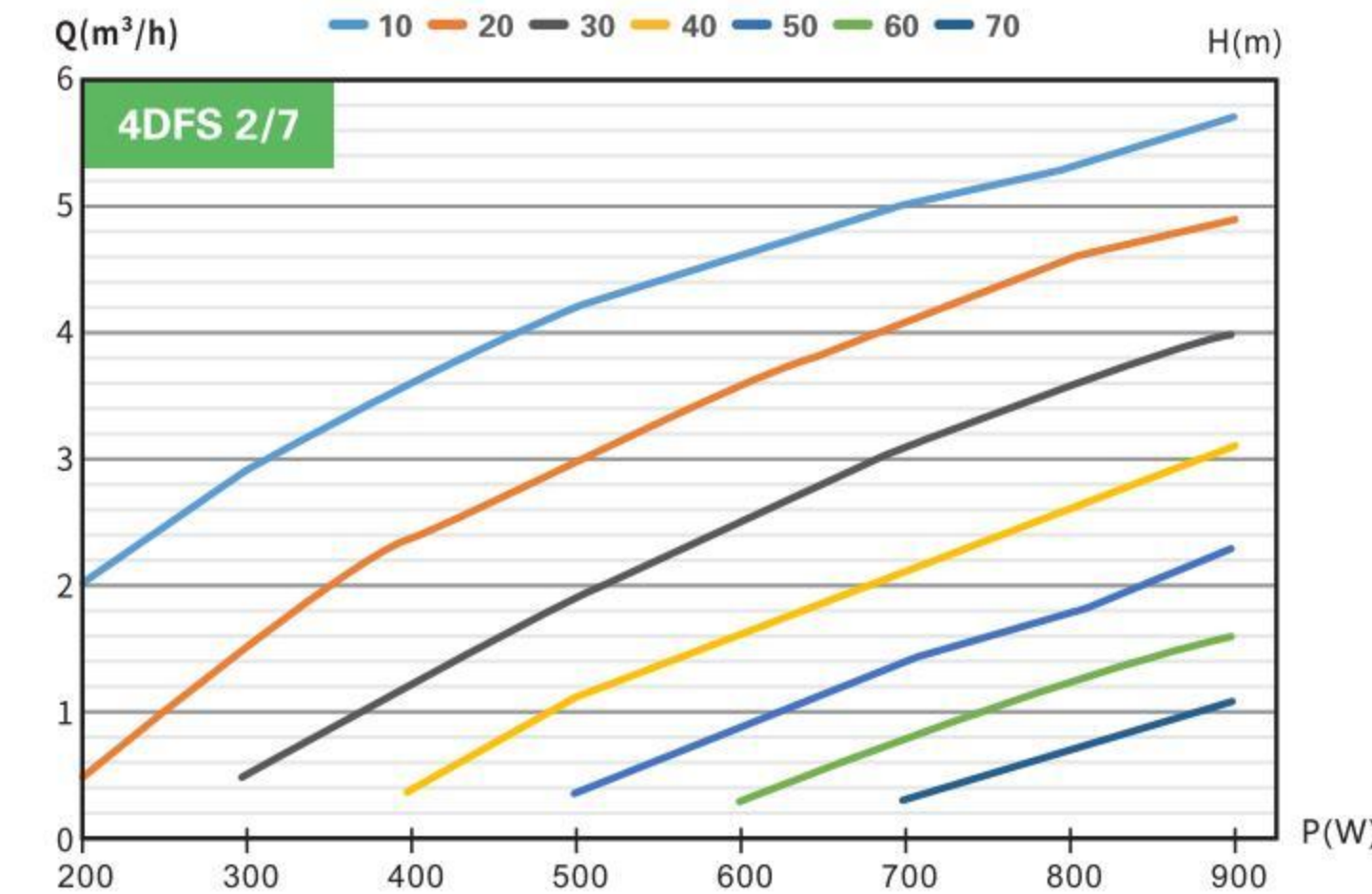


MONITOR  
(for selection)

- IP65
- Intelligent Display
- Three operating modes: automatic mode, AC mode, DC mode.
- Water level control and pressure control (with electronic float switch and pressure switch)
- Low power or low flow judgment (with flow switch)
- Auto-start function while power-on
- Time switch function
- AC and DC power supply timing switching function
- Auto start generator function (with Gen signal relay)
- Over current/ over voltage protection function
- Automatically identify whether the AC terminal is connected to DC or AC power supply, and calculate and judge respectively overvoltage and undervoltage.



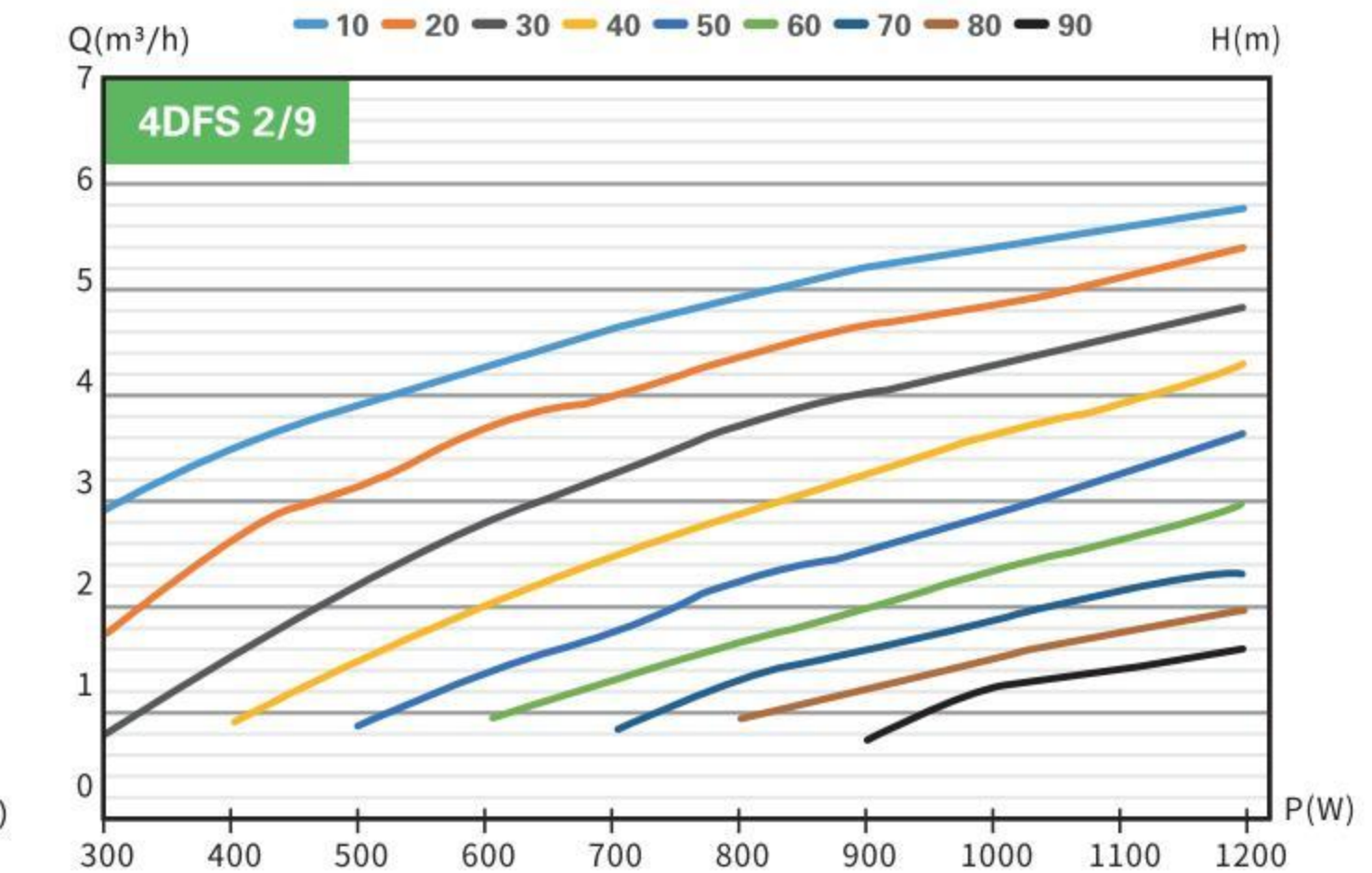
FREE SPARE PARTS



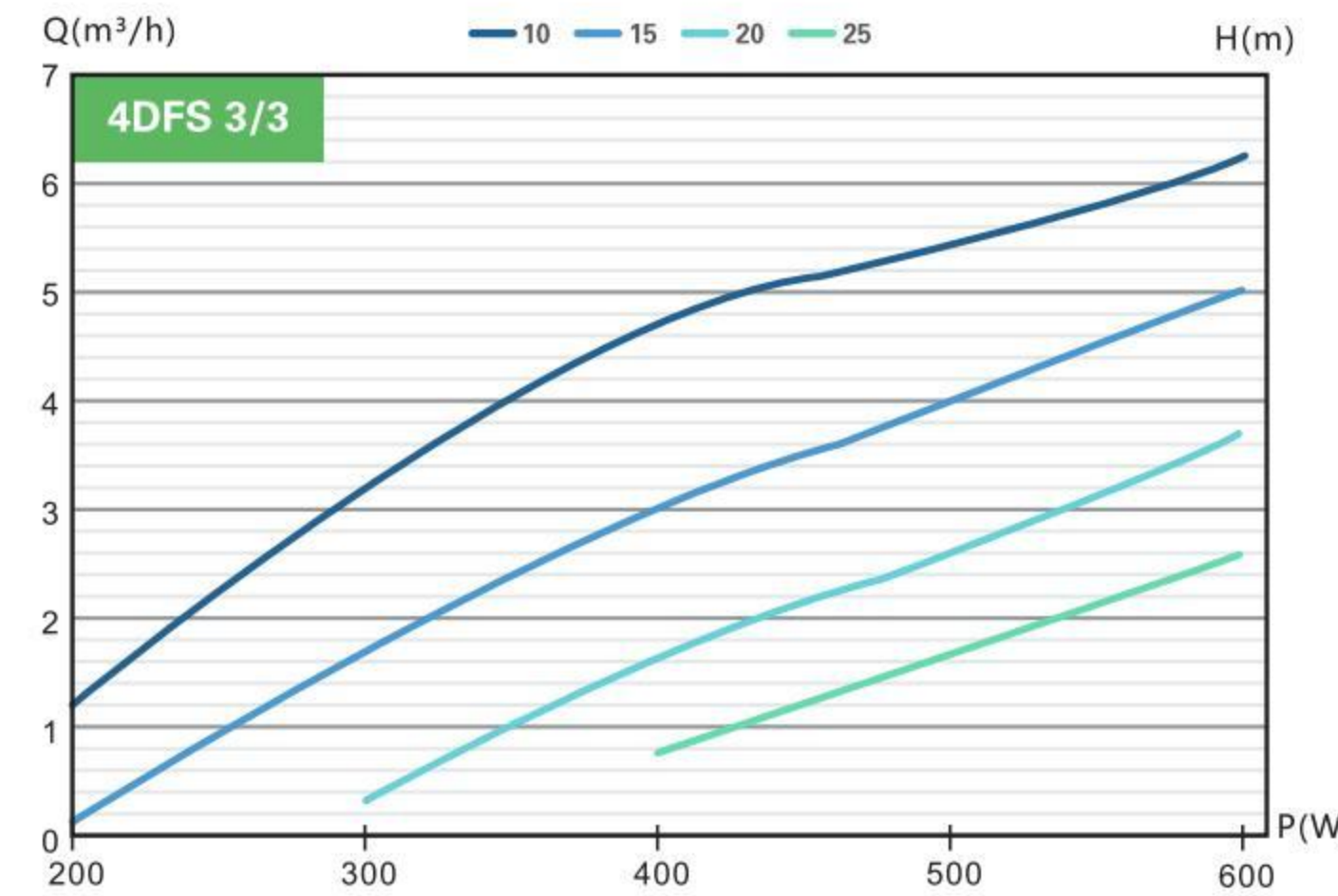
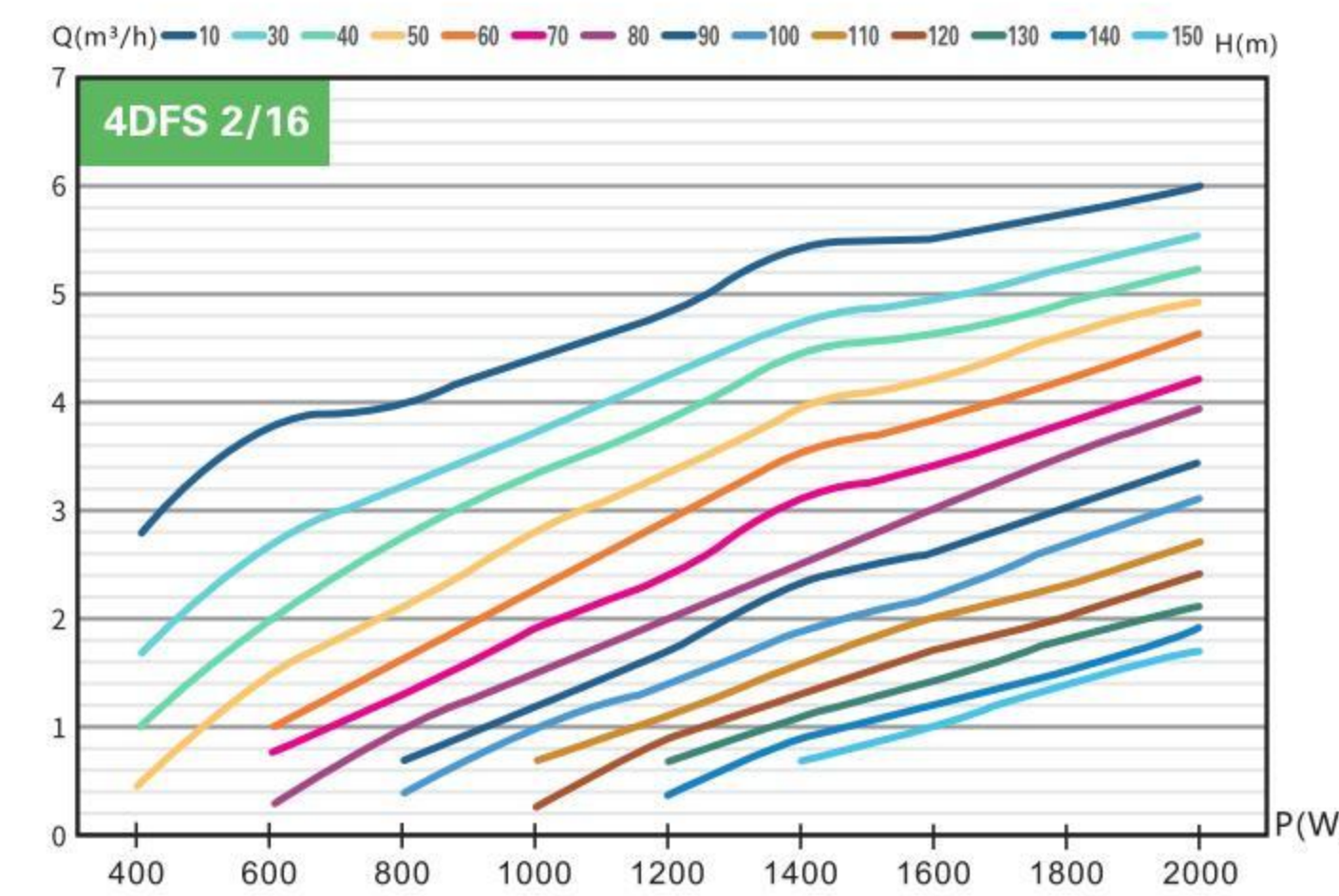
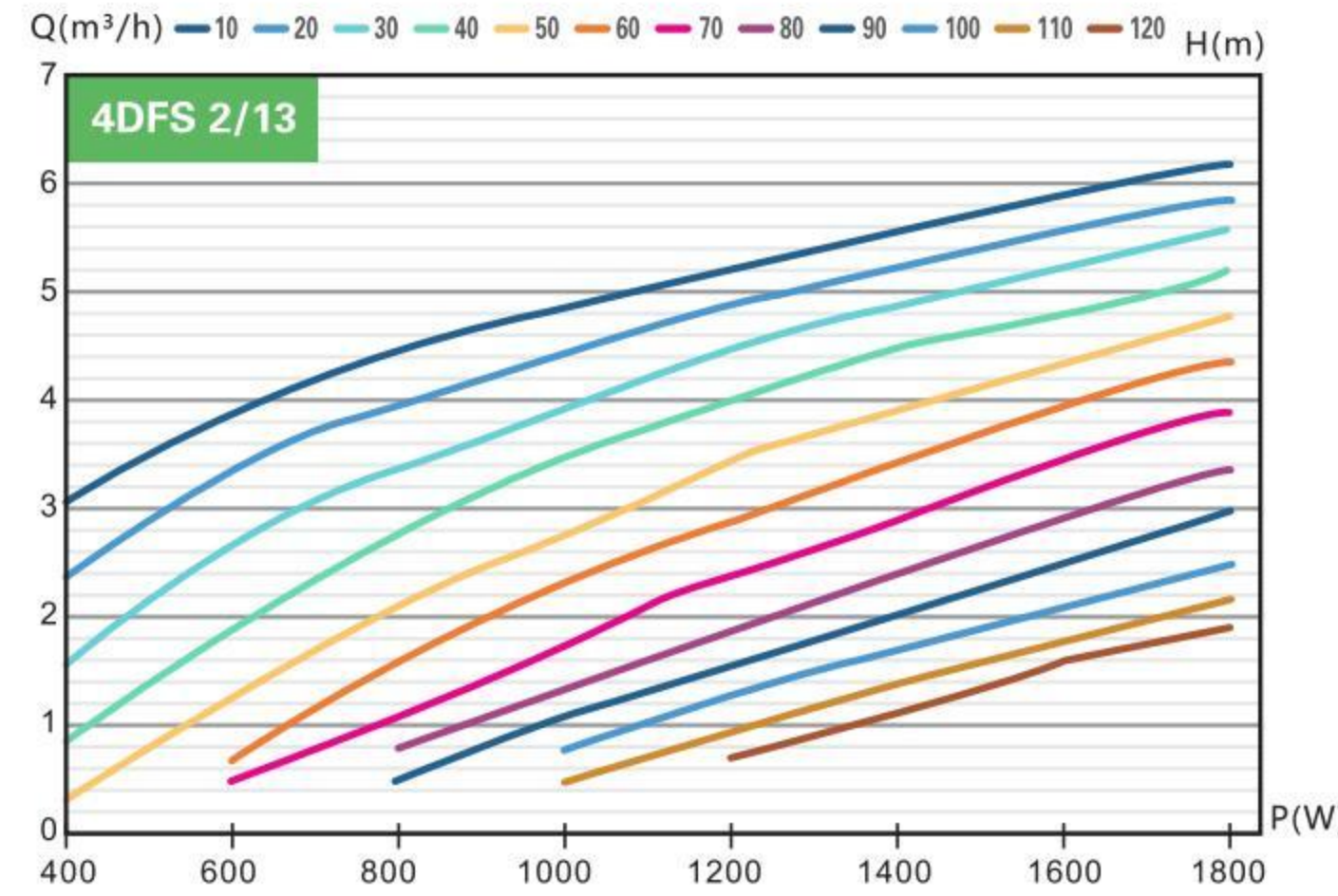
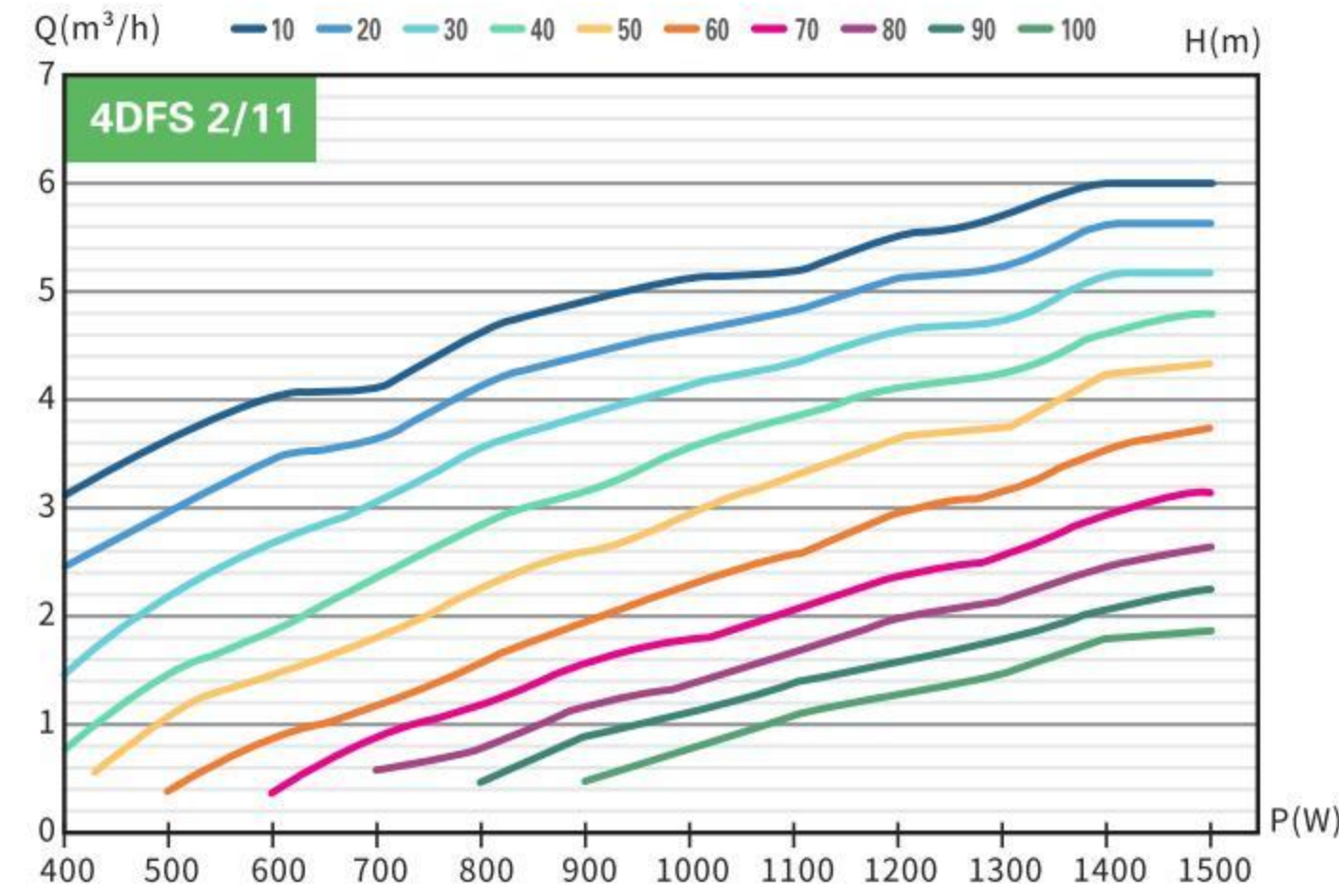
Model	Input Power (W)								
	200	300	400	500	600	700	800	900	
4DFS5.7-83-750	Q(m³/h)								
	10	2	2.9	3.6	4.2	4.6	5	5.3	5.7
	20	0.5	1.5	2.4	3	3.6	4.1	4.6	4.9
	30		0.5	1.2	1.9	2.5	3.1	3.6	4
	40			0.4	1.1	1.6	2.1	2.6	3.1
	50				0.4	0.9	1.4	1.8	2.3
	60					0.3	0.8	1.2	1.6
70						0.3	0.7	1.1	

Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4DFS5.7-83-750	60-380Vmp(60-440VOC)	90-240VAC	750W	5.7m³/h	83m
4DFS5.9-107-1100	60-380Vmp(60-440VOC)	90-240VAC	1100W	5.9m³/h	107m

Outlet	Pump size	Cable	PV	Connection mode	Pump body
1.25"	4"	2m	330W*3	in series	4DFS2/7
1.25"	4"	2m	330W*4	in series	4DFS2/9



Model	Input Power (W)										
	300	400	500	600	700	800	900	1000	1100	1200	
4DFS5.9-107-1100	Q(m³/h)										
	10	2.8	3.4	3.8	4.2	4.6	4.9	5.2	5.4	5.6	5.8
	20	1.6	2.5	3	3.6	3.9	4.3	4.6	4.8	5.1	5.4
	30	0.7	1.4	2	2.6	3.1	3.6	3.9	4.2	4.5	4.8
	40		0.7	1.3	1.8	2.3	2.7	3.1	3.5	3.8	4.2
	50			0.6	1.1	1.5	2	2.3	2.7	3.1	3.5
	60				0.6	1	1.4	1.7	2.1	2.4	2.8
	70					0.5	1	1.3	1.6	1.9	2.1
	80						0.6	0.9	1.2	1.5	1.7
	90							0.4	0.9	1.1	1.3



Model	Input Power (W)													
	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500		
4DFS6.1-129-1300	Q(m³/h)													
H(m)	10	3.2	3.7	4.1	4.2	4.7	5	5.2	5.3	5.6	5.7	6	6	
	20	2.5	3	3.5	3.7	4.2	4.5	4.7	4.9	5.2	5.3	5.7	5.7	
	30	1.5	2.2	2.7	3.1	3.6	3.9	4.2	4.4	4.7	4.8	5.2	5.3	
	40	0.8	1.5	1.9	2.4	2.9	3.2	3.6	3.9	4.2	4.3	4.7	4.9	
	50	0.3	1	1.3	1.7	2.2	2.5	2.9	3.2	3.6	3.7	4.2	4.3	
	60		0.4	0.9	1.2	1.6	2	2.3	2.6	3	3.2	3.6	3.8	
	70			0.4	0.9	1.2	1.6	1.8	2.1	2.4	2.6	3	3.2	
	80				0.6	0.8	1.2	1.4	1.7	2	2.2	2.5	2.7	
	90					0.5	0.9	1.1	1.4	1.6	1.8	2.1	2.3	
	100						0.5	0.8	1.1	1.3	1.5	1.8	1.9	

Model	Input Power (W)											
	400	600	800	1000	1200	1400	1600	1800				
4DFS6.2-144-1500	Q(m³/h)											
H(m)	10	3.1	3.9	4.5	4.9	5.3	5.6	5.9	6.2			
	20	2.4	3.4	4	4.5	4.9	5.3	5.6	5.9			
	30	1.6	2.7	3.4	4	4.5	4.9	5.3	5.6			
	40	0.9	1.9	2.8	3.5	4	4.5	4.8	5.2			
	50	0.3	1.3	2.1	2.8	3.5	4	4.4	4.8			
	60		0.7	1.6	2.3	2.9	3.5	4	4.4			
	70			0.5	1.1	1.8	2.4	2.9	3.5	3.9		
	80				0.8	1.4	1.9	2.4	2.9	3.4		
	90					0.5	1.1	1.5	2	2.5	3	
	100						0.8	1.3	1.7	2.1	2.5	
	110							0.5	1	1.4	1.8	2.2
	120								0.7	1.1	1.6	1.9

Model	Input Power (W)														
	400	600	800	1000	1200	1400	1600	1800	2000						
4DFS6.1-183-1800	Q(m³/h)														
H(m)	10	2.8	3.8	4	4.4	4.8	5.4	5.5	5.7	6					
	30	1.7	2.7	3.2	3.7	4.2	4.7	4.9	5.2	5.5					
	40	1	2	2.7	3.3	3.8	4.4	4.6	4.9	5.2					
	50	0.5	1.5	2.1	2.8	3.3	3.9	4.2	4.6	4.9					
	60		1	1.7	2.3	2.9	3.5	3.8	4.2	4.6					
	70			0.8	1.3	1.9	2.4	3.1	3.4	3.8	4.2				
	80				0.3	1	1.5	2	2.5	3	3.5	3.9			
	90					0.7	1.2	1.7	2.3	2.6	3	3.4			
	100						0.4	1	1.4	1.9	2.2	2.7	3.1		
	110							0.7	1.1	1.6	2	2.3	2.7		
	120								0.3	0.9	1.3	1.7	2	2.4	
	130									0.7	1.1	1.4	1.8	2.1	
	140										0.4	0.9	1.2	1.5	1.9
	150											0.7	1	1.4	1.7

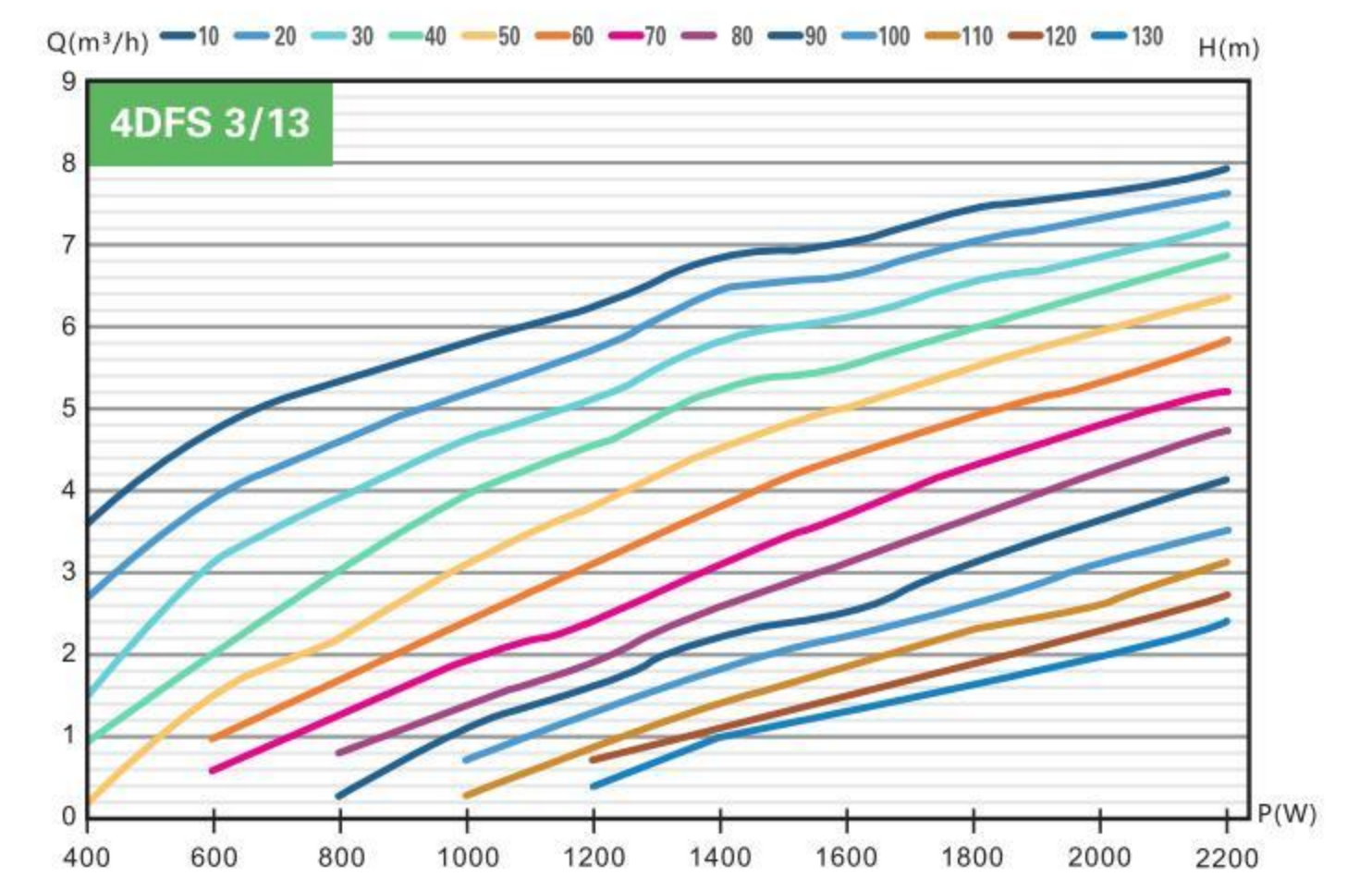
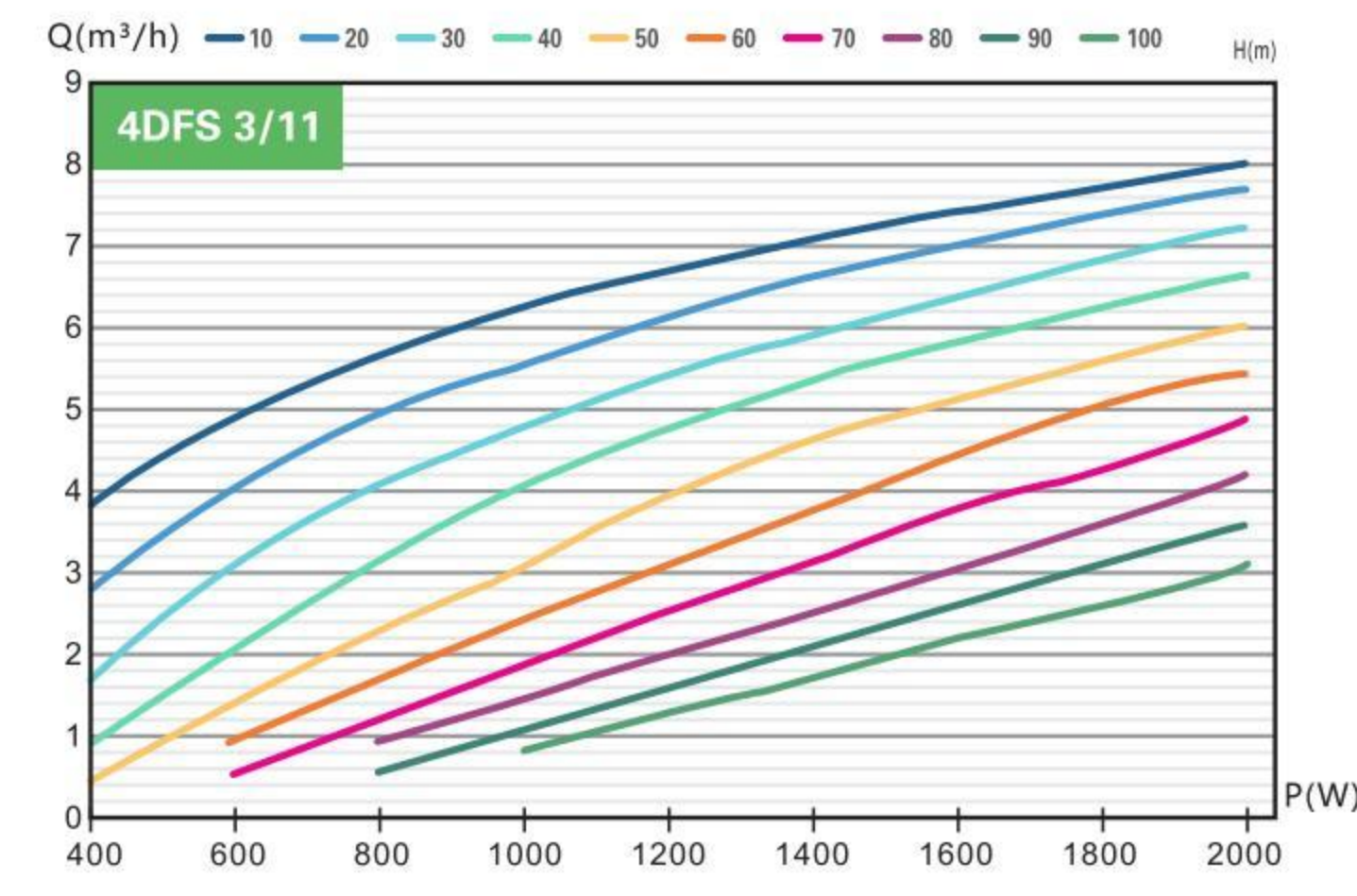
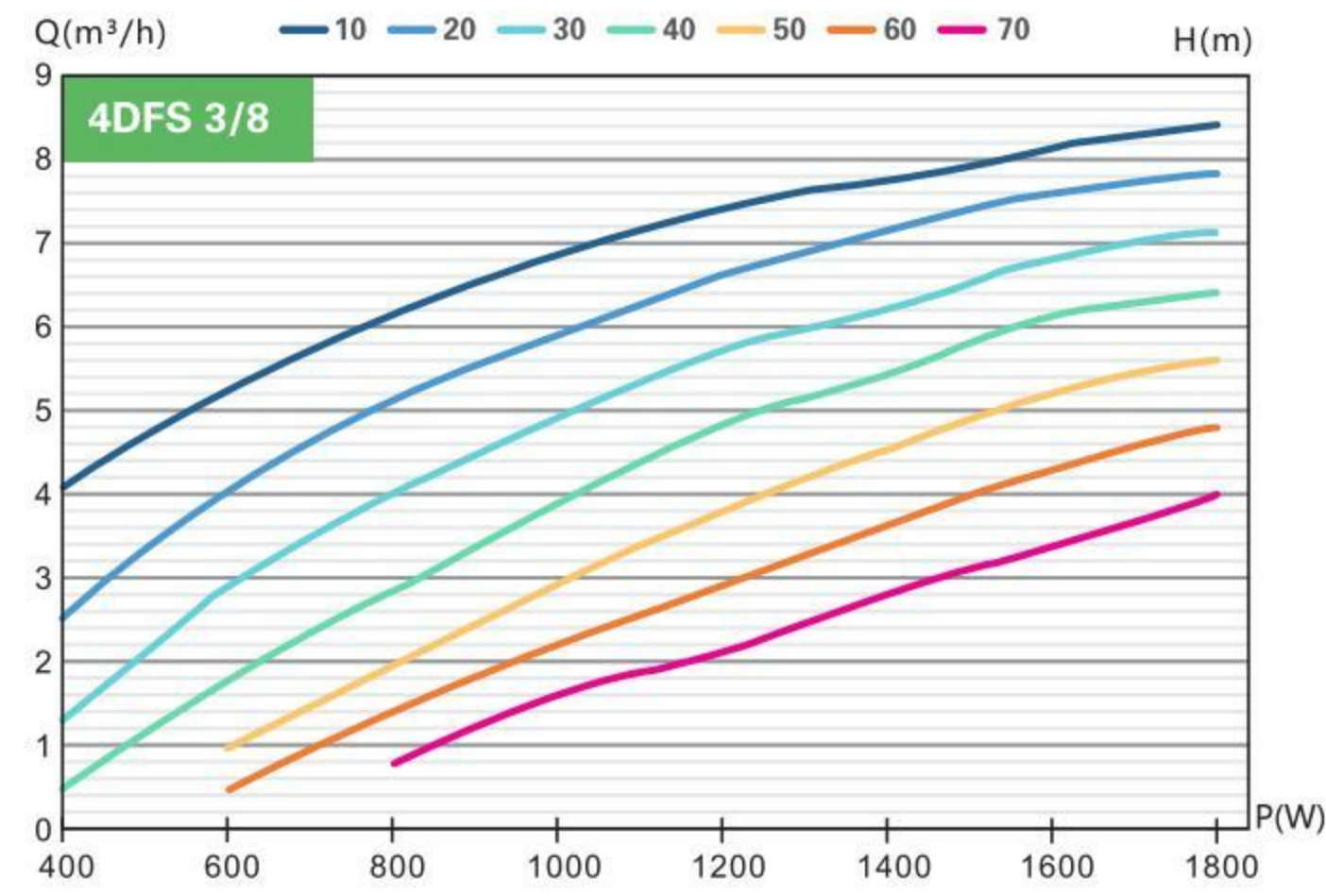
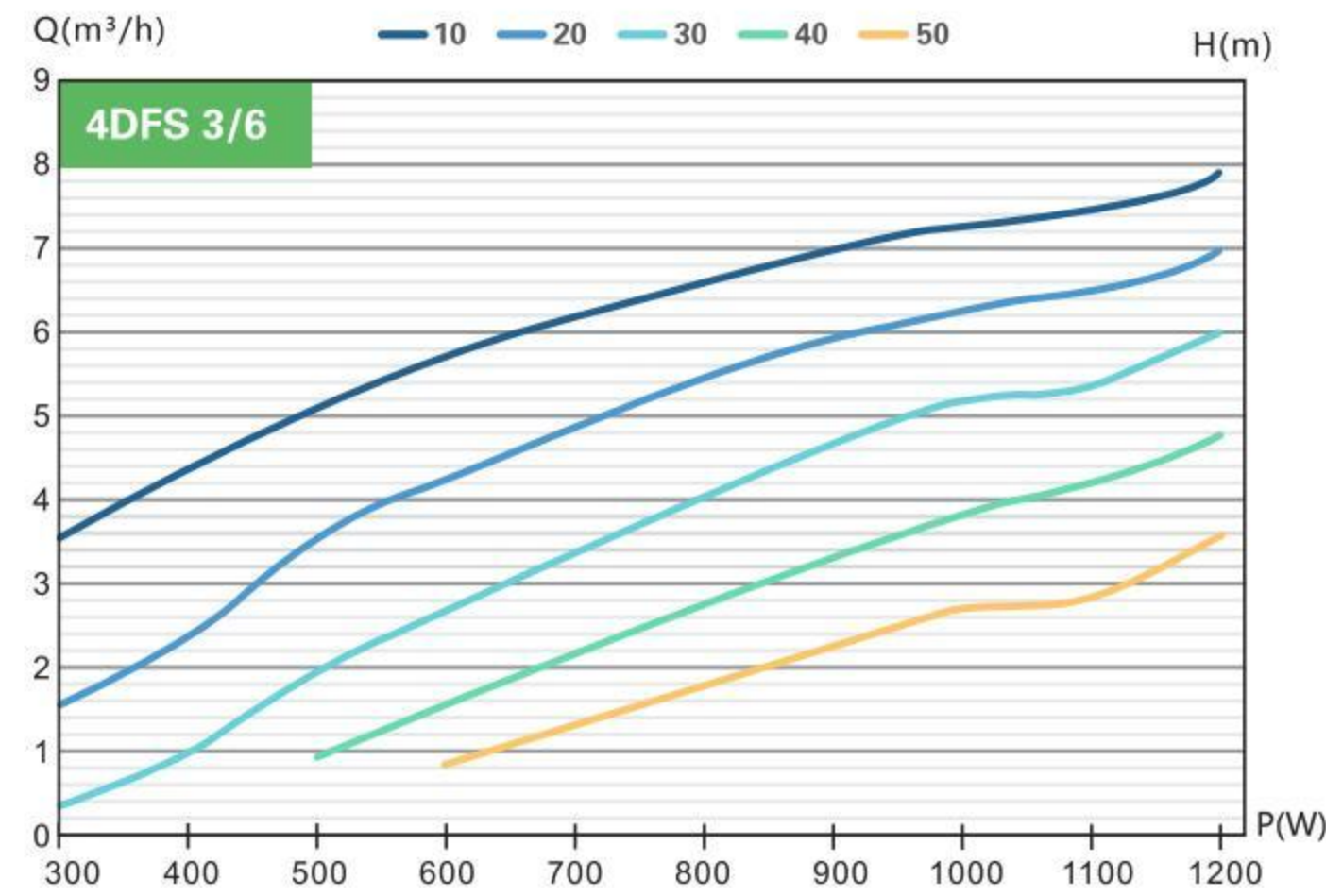
Model	Input Power (W)					
	200	300	400	500	600	
4DFS6.7-39-500	Q(m³/h)					
H(m)	10	1.3	3.3	4.7	5.4	6.2
	15	0.2	1.7	3	4	5
	20		0.4	1.7	2.6	3.7
	25			0.8	1.7	2.6

Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4DFS6.1-129-1300	60-380Vmp(60-440VOC)	90-240VAC	1300W	6.1m³/h	129m
4DFS6.2-144-1500	60-380Vmp(60-440VOC)	90-240VAC	1500W	6.2m³/h	144m

Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4DFS6.1-183-1800	60-380Vmp(60-440VOC)	90-240VAC	1800W	6.1m³/h	183m
4DFS6.7-39-500	60-380Vmp(60-440VOC)	90-240VAC	500W	6.7m³/h	39m

Outlet	Pump size	Cable	PV	Connection mode	Pump body
1.25"	4"	2m	330W*5	in series	4DFS2/11
1.25"	4"	2m	330W*6	in series	4DFS2/13

Outlet	Pump size	Cable	PV	Connection mode	Pump body
1.25"	4"	2m	330W*7	in series	4DFS2/16
1.25"	4"	2m	330W*2	in series	4DFS3/3



Model	Input Power (W)										
	300	400	500	600	700	800	900	1000	1100	1200	
4DFS7.8-73-1100	Q(m³/h)										
H(m)	10	3.5	4.3	5	5.6	6.1	6.5	6.9	7.2	7.4	7.8
	20	1.5	2.3	3.5	4.2	4.8	5.4	5.8	6.2	6.4	6.9
	30	0.3	0.9	1.9	2.6	3.3	4	4.6	5.1	5.3	5.9
	40			0.9	1.5	2.1	2.7	3.2	3.7	4.1	4.7
	50				0.8	1.3	1.7	2.2	2.6	2.8	3.5

Model	Input Power (W)									
	400	600	800	1000	1200	1400	1600	1800		
4DFS8.4-97-1500	Q(m³/h)									
H(m)	10	4.1	5.2	6.1	6.8	7.4	7.7	8.1	8.4	
	20	2.6	4.1	5.1	5.9	6.6	7.1	7.6	7.8	
	30	1.3	2.9	4	4.9	5.7	6.2	6.8	7.1	
	40	0.5	1.8	2.8	3.9	4.8	5.4	6.1	6.4	
	50		1	2	2.9	3.8	4.5	5.2	5.6	
	60			0.5	1.4	2.2	2.9	3.6	4.3	4.8
	70				0.8	1.6	2.1	2.8	3.4	4

Model	Input Power (W)										
	400	600	800	1000	1200	1400	1600	1800	2000		
4DFS8.1-133-1800	Q(m³/h)										
H(m)	10	3.9	4.9	5.6	6.2	6.7	7.1	7.4	7.7	8	
	20	2.8	4	4.9	5.5	6.1	6.6	7	7.4	7.7	
	30	1.6	3	4	4.7	5.4	5.9	6.4	6.8	7.2	
	40	0.9	2	3.1	4	4.7	5.3	5.8	6.2	6.6	
	50	0.3	1.3	2.2	3	3.9	4.6	5.1	5.6	6	
	60		0.8	1.6	2.3	3	3.7	4.4	5	5.4	
	70			0.4	1.1	1.8	2.4	3	3.7	4.2	4.8
	80				0.8	1.3	1.9	2.4	3	3.5	4.1
	90				0.4	1	1.5	2	2.5	3	3.5
	100					0.7	1.2	1.6	2.1	2.5	3

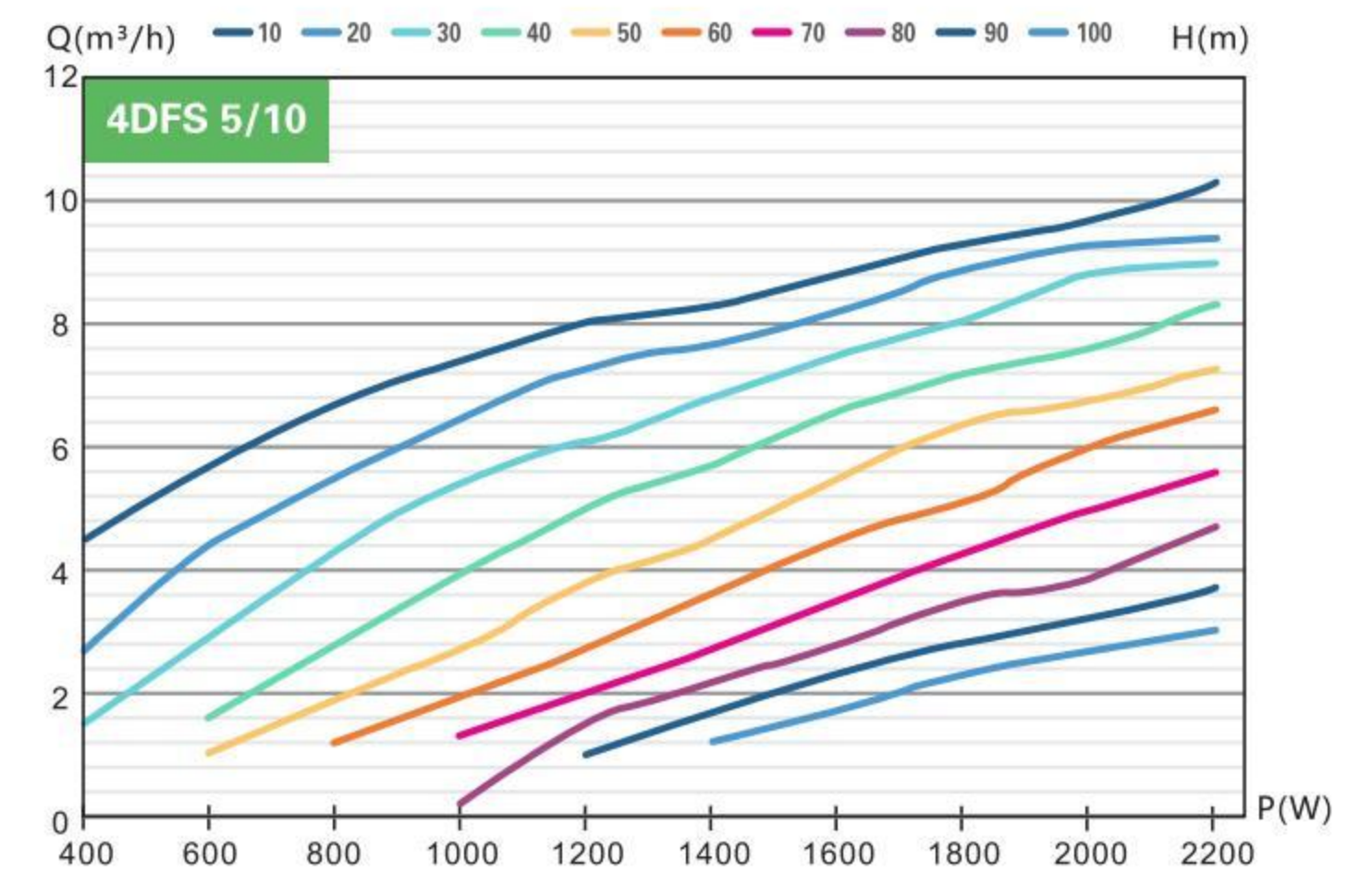
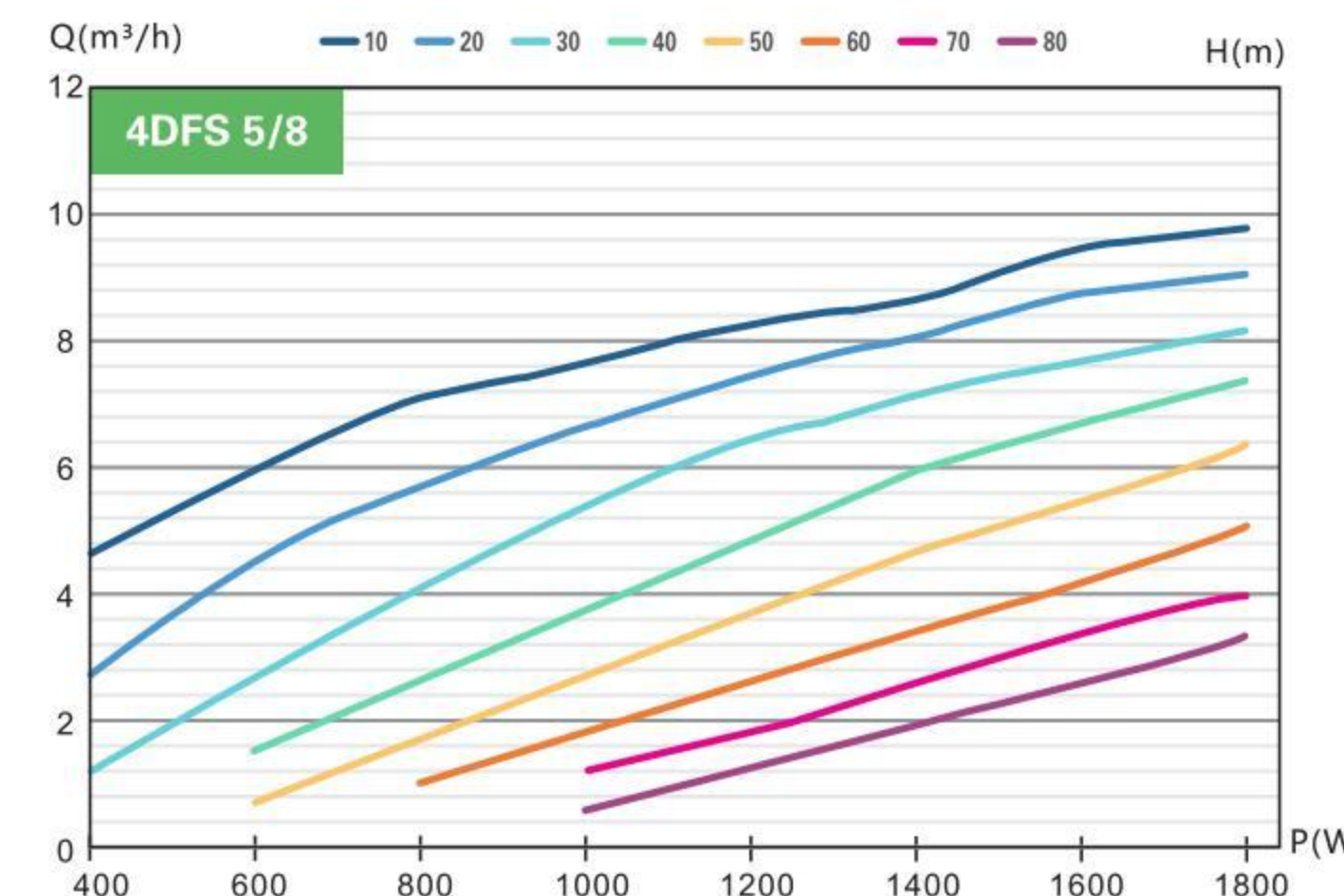
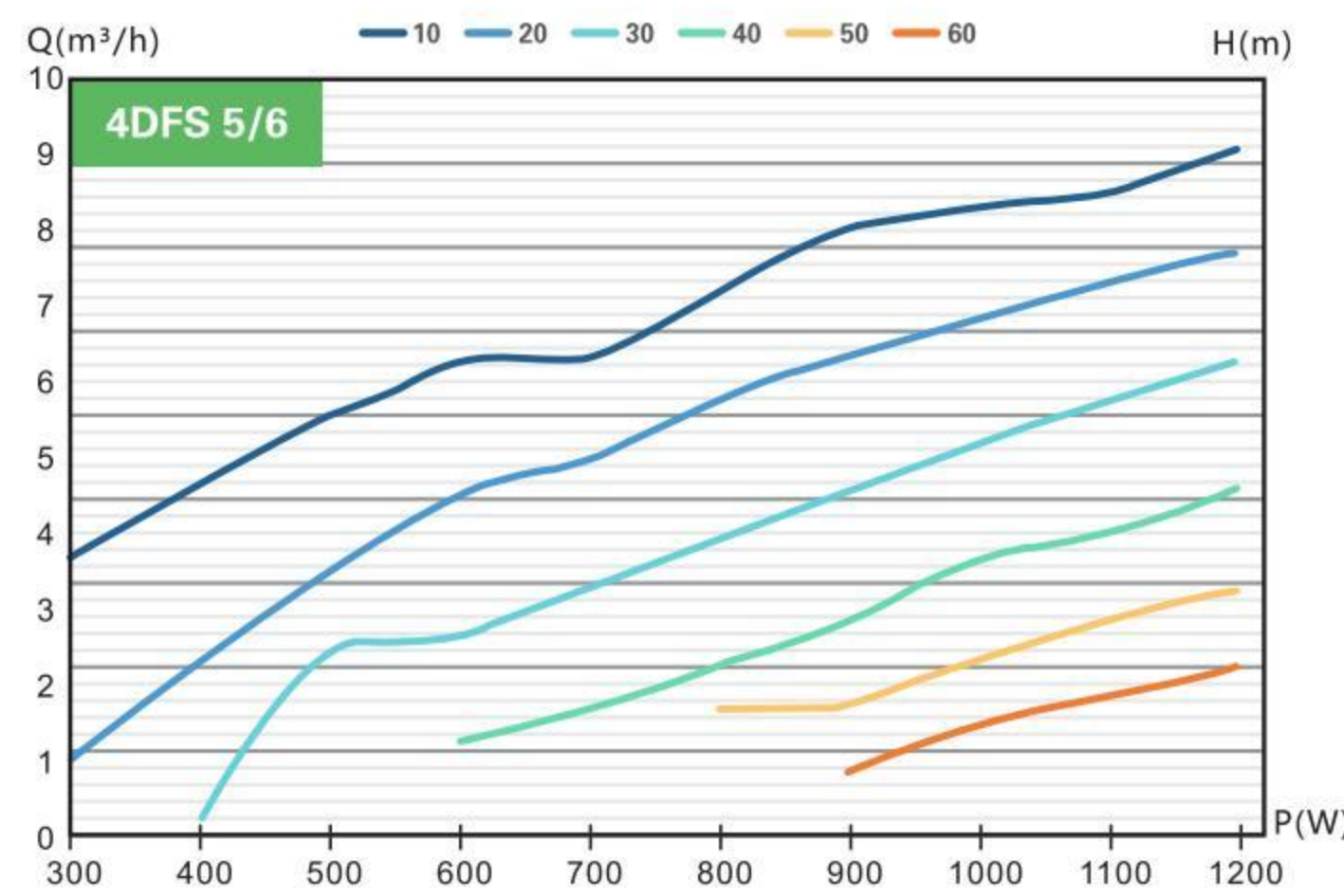
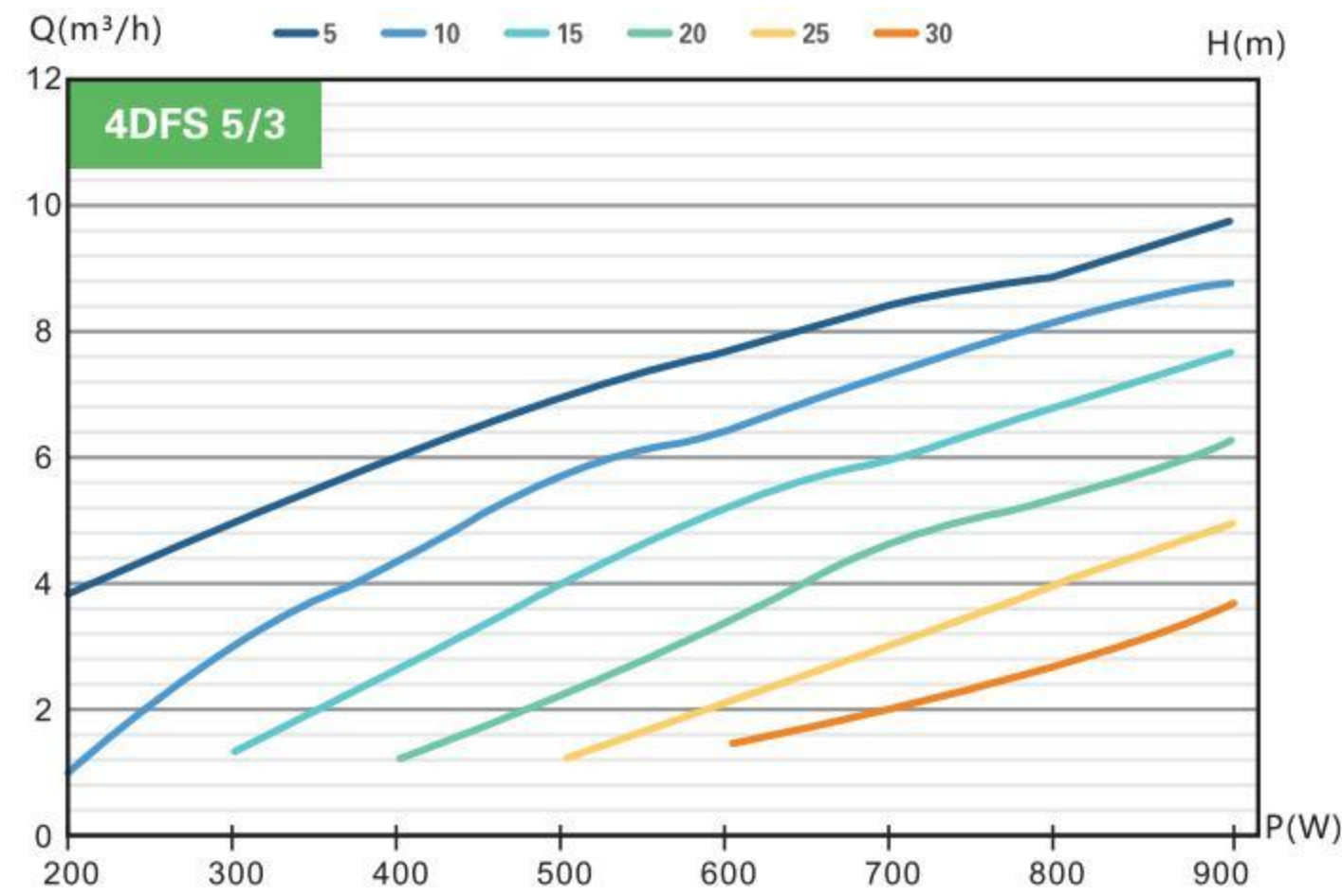
Model	Input Power (W)													
	400	600	800	1000	1200	1400	1600	1800	2000	2200				
4DFS8-157-2200	Q(m³/h)													
H(m)	10	3.6	4.7	5.3	5.8	6.2	6.8	7	7.4	7.6	7.9			
	20	2.7	3.9	4.6	5.2	5.7	6.4	6.6	7	7.3	7.6			
	30	1.5	3.1	3.9	4.6	5.1	5.8	6.1	6.5	6.8	7.2			
	40	0.9	2	3	3.9	4.5	5.2	5.5	6	6.4	6.8			
	50	0.2	1.5	2.2	3.1	3.8	4.5	5	5.5	5.9	6.3			
	60		1	1.7	2.4	3.1	3.8	4.4	4.9	5.3	5.8			
	70			0.6	1.2	1.9	2.4	3.1	3.7	4.3	4.8	5.2		
	80				0.8	1.4	1.9	2.6	3.1	3.7	4.2	4.7		
	90					0.3	1.1	1.6	2.2	2.5	3.1	3.6	4.1	
	100						0.7	1.3	1.8	2.2	2.6	3.1	3.5	
	110							0.3	0.9	1.4	1.8	2.3	2.6	3.1
	120								0.7	1.1	1.5	1.9	2.3	2.7
	130									0.4	1	1.3	1.6	2

Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4DFS7.8-73-1100	60-380Vmp(60-440VOC)	90-240VAC	1100W	7.8m³/h	73m
4DFS8.4-97-1500	60-380Vmp(60-440VOC)	90-240VAC	1500W	8.4m³/h	97m

Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4DFS8.1-133-1800	60-380Vmp(60-440VOC)	90-240VAC	1800W	8.1m³/h	133m
4DFS8-157-2200	60-380Vmp(60-440VOC)	90-240VAC	2200W	8m³/h	157m

Outlet	Pump size	Cable	PV	Connection mode	Pump body
1.25"	4"	2m	330W*4	in series	4DFS3/6
1.25"	4"	2m	330W*6	in series	4DFS3/8

Outlet	Pump size	Cable	PV	Connection mode	Pump body
1.25"	4"	2m	330W*7	in series	4DFS3/11
1.25"	4"	2m	330W*8	in series	4DFS3/13



Model	Input Power (W)								
4DFS10.2-40-750	200	300	400	500	600	700	800	900	
	Q(m <sup>3</sup> /h)								
H(m)	5	3.8	4.9	6	6.9	7.6	8.4	8.9	9.7
	10	1	3	4.3	5.7	6.4	7.4	8.1	8.7
	15		1.3	2.6	4	5.2	6	6.9	7.6
	20			1.2	2.2	3.4	4.6	5.3	6.2
	25				1.2	2.1	3	4	4.9
	30					1.4	2	2.7	3.6

Model	Input Power (W)											
4DFS9.5-77-1100	300	400	500	600	700	800	900	1000	1100	1200		
	Q(m <sup>3</sup> /h)											
H(m)	10	3.6	4.6	5.5	6.4	6.5	7.3	8	8.3	8.5	9.1	
	20	0.9	2.2	3.4	4.4	4.9	5.7	6.3	6.8	7.3	7.7	
	30		0.2	2.1	2.3	3	3.8	4.5	5.1	5.7	6.2	
	40				1.1	1.5	2.1	2.7	3.5	3.9	4.5	
	50						1.5	1.6	2.2	2.7	3.1	
	60							0.7	1.3	1.7	2.1	

Model	Input Power (W)										
4DFS10-104-1500	400	600	800	1000	1200	1400	1600	1800			
	Q(m <sup>3</sup> /h)										
H(m)	10	4.6	5.9	7	7.6	8.2	8.6	9.4	9.7		
	20	2.7	4.5	5.7	6.6	7.4	8	8.7	9		
	30	1.2	2.7	4.1	5.3	6.3	7.1	7.6	8.1		
	40		1.5	2.6	3.7	4.8	5.9	6.6	7.3		
	50			0.7	1.7	2.6	3.6	4.6	5.4	6.3	
	60				1	1.8	2.6	3.4	4.1	5	
	70					1.2	1.8	2.6	3.3	3.9	
	80						0.6	1.2	1.9	2.5	3.3

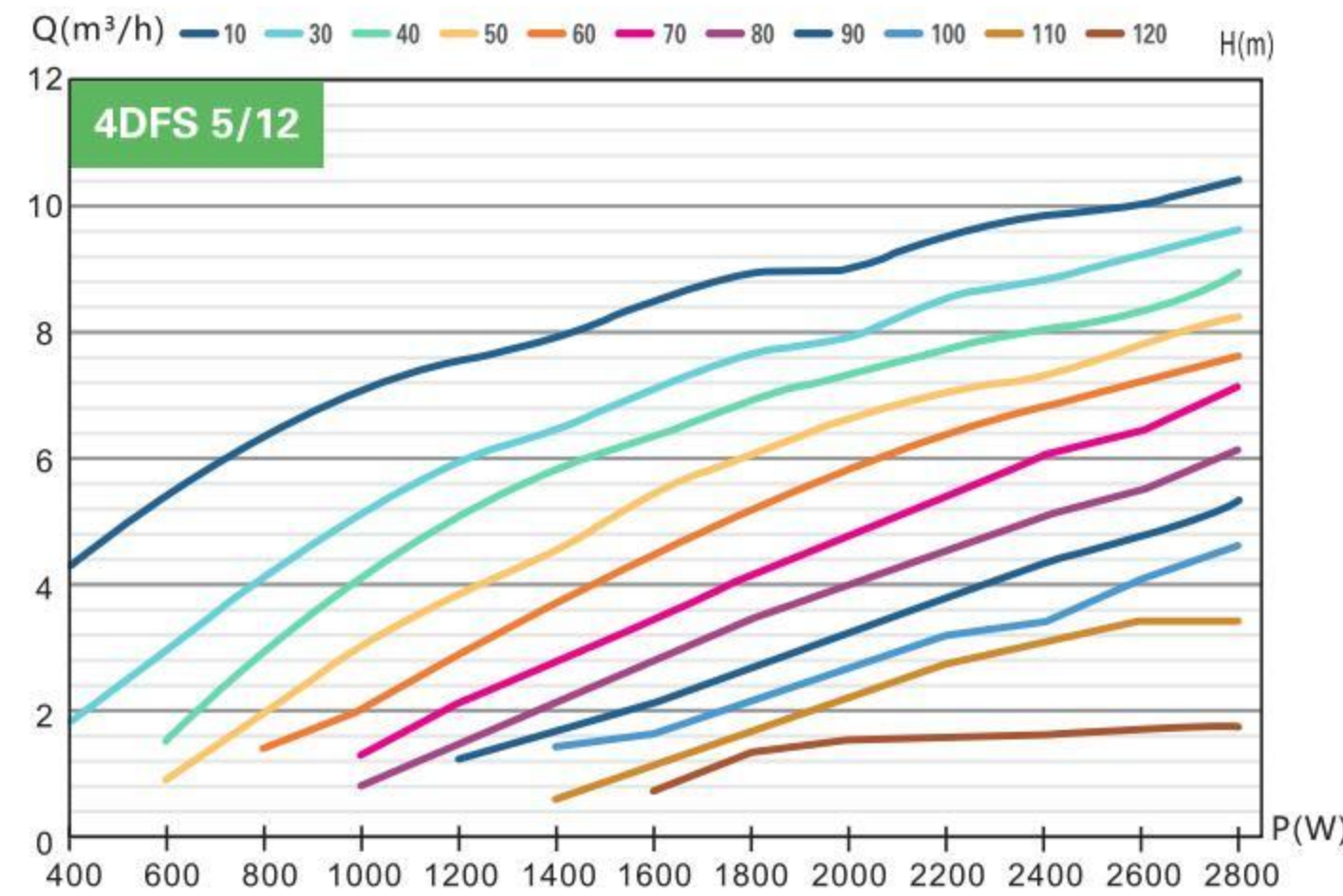
Model	Input Power (W)											
4DFS10.3-129-2200	400	600	800	1000	1200	1400	1600	1800	2000	2200		
	Q(m <sup>3</sup> /h)											
H(m)	10	4.6	5.8	6.7	7.4	8	8.3	8.8	9.3	9.7	10.3	
	20	2.7	4.4	5.5	6.5	7.3	7.7	8.2	8.9	9.3	9.4	
	30	1.5	2.9	4.3	5.4	6.1	6.8	7.5	8.1	8.8	9	
	40		1.6	2.8	3.9	5	5.7	6.6	7.2	7.6	8.3	
	50			1	1.9	2.7	3.8	4.5	5.5	6.4	6.8	7.3
	60				1.2	1.9	2.7	3.6	4.5	5.1	6	6.6
	70					1.3	2	2.7	3.5	4.3	5	5.6
	80						0.2	1.5	2.2	2.8	3.5	4.7
	90							1	1.7	2.3	2.8	3.7
	100								1.2	1.7	2.3	2.7

Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4DFS10.2-40-750	60-380Vmp(60-440VOC)	90-240VAC	750W	10.2m <sup>3</sup> /h	40m
4DFS9.5-77-1100	60-380Vmp(60-440VOC)	90-240VAC	1100W	9.5m <sup>3</sup> /h	77m

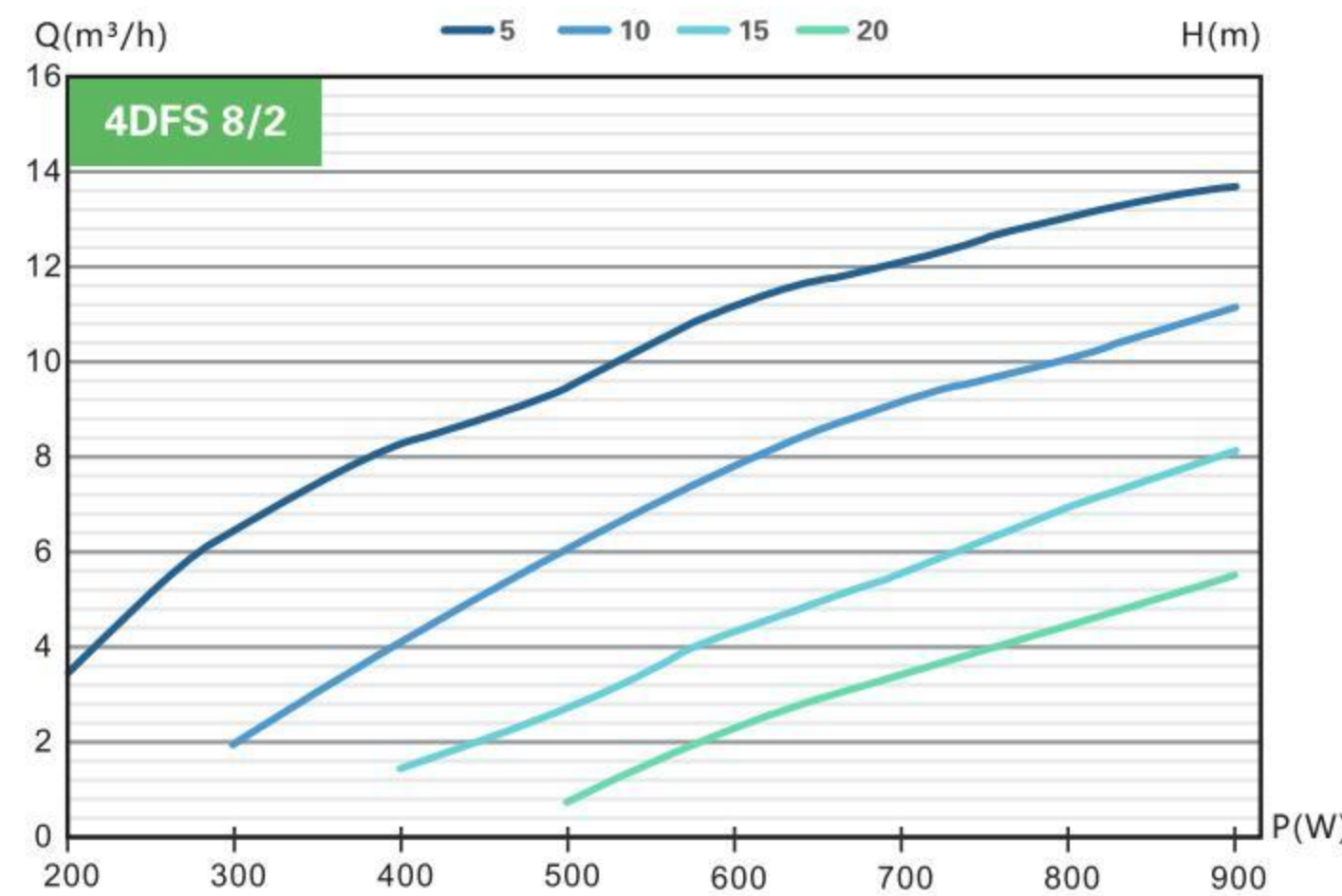
Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4DFS10-104-1500	60-380Vmp(60-440VOC)	90-240VAC	1500W	10m <sup>3</sup> /h	104m
4DFS10.3-129-2200	60-380Vmp(60-440VOC)	90-240VAC	2200W	10.3m <sup>3</sup> /h	129m

Outlet	Pump size	Cable	PV	Connection mode	Pump body
1.25"	4"	2m	330W*3	in series	4DFS5/3
1.5"	4"	2m	330W*4	in series	4DFS5/6

Outlet	Pump size	Cable	PV	Connection mode	Pump body
1.5"	4"	2m	330W*6	in series	4DFS5/8
1.5"	4"	2m	330W*8	in series	4DFS5/10



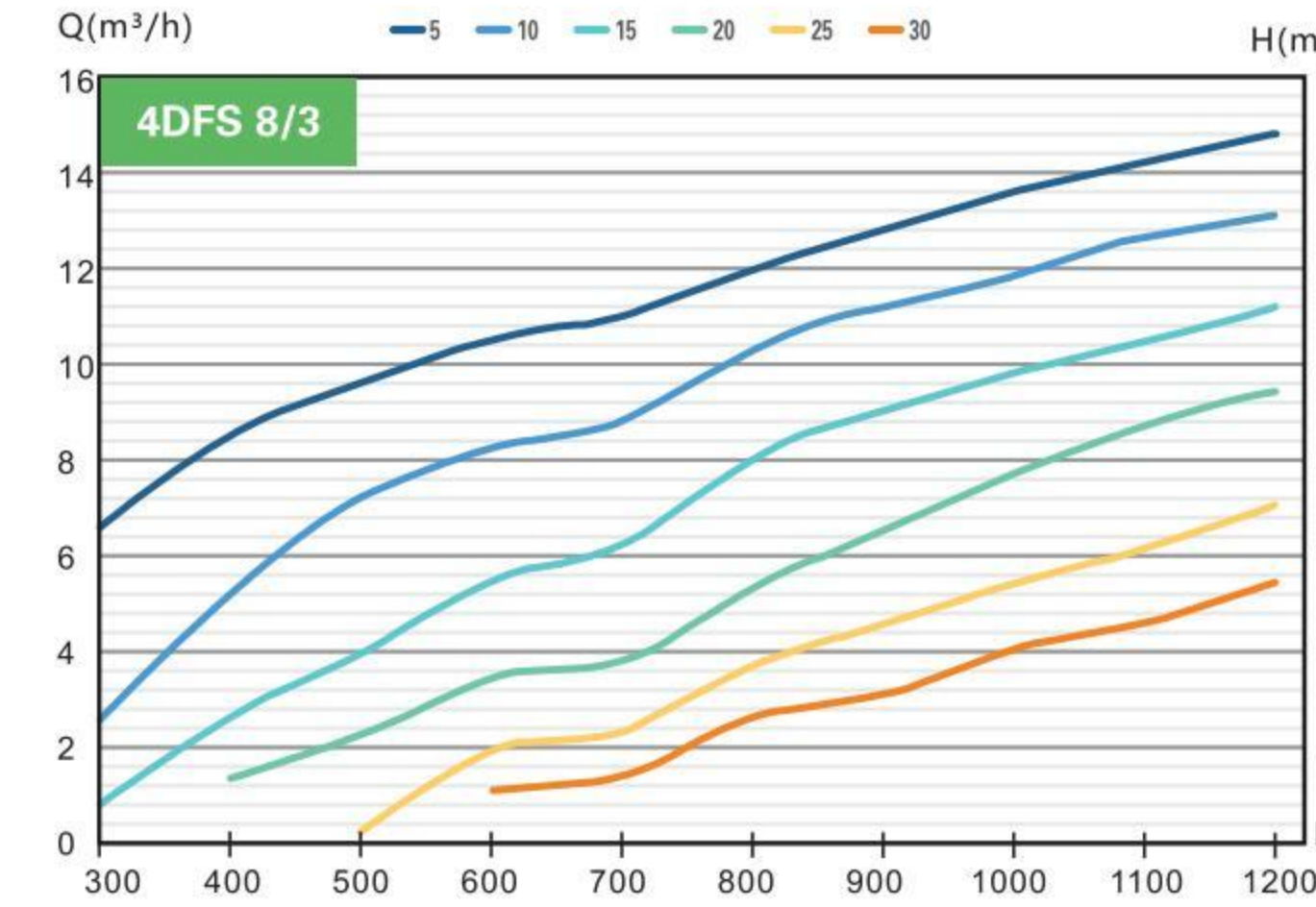
Model	Input Power (W)														
	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800		
4DFS10.6-136-2600	Q(m <sup>3</sup> /h)														
H(m)	10	4.3	5.4	6.3	7	7.5	7.9	8.5	8.9	9	9.5	9.8	10	10.4	
	30	1.8	2.9	4.1	5.1	5.9	6.4	7.1	7.6	7.9	8.5	8.8	9.2	9.6	
	40		1.5	2.9	4.1	5	5.8	6.3	6.9	7.3	7.7	8	8.3	8.9	
	50		0.9	1.9	3	3.8	4.5	5.4	6	6.6	7	7.3	7.8	8.2	
	60			1.4	2	2.9	3.7	4.4	5.1	5.7	6.3	6.8	7.1	7.6	
	70				1.3	2.1	2.7	3.4	4.1	4.7	5.3	6	6.4	7.1	
	80				0.8	1.5	2.1	2.7	3.4	3.9	4.5	5.1	5.5	6.1	
	90					1.2	1.7	2.1	2.7	3.2	3.8	4.3	4.7	5.3	
	100						1.4	1.6	2.1	2.6	3.2	3.4	4.1	4.6	
	110							0.6	1.1	1.6	2.1	2.7	3	3.4	3.4
	120								0.7	1.3	1.5	1.5	1.6	1.7	1.7



Model	Input Power (W)								
	200	300	400	500	600	700	800	900	
4DFS14.3-26-750	Q(m <sup>3</sup> /h)								
H(m)	5	3.5	6.5	8.3	9.5	11.2	12.1	13.1	13.7
	10		2	4.1	6.1	7.8	9.2	10.1	11.2
	15			1.5	2.8	4.4	5.6	7	8.2
	20				0.8	2.4	3.4	4.5	5.5

Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4DFS10.6-136-2600	60-380Vmp(60-440VOC)	90-240VAC	2600W	10.6m <sup>3</sup> /h	136m
4DFS14.3-26-750	60-380Vmp(60-440VOC)	90-240VAC	750W	14.3m <sup>3</sup> /h	26m

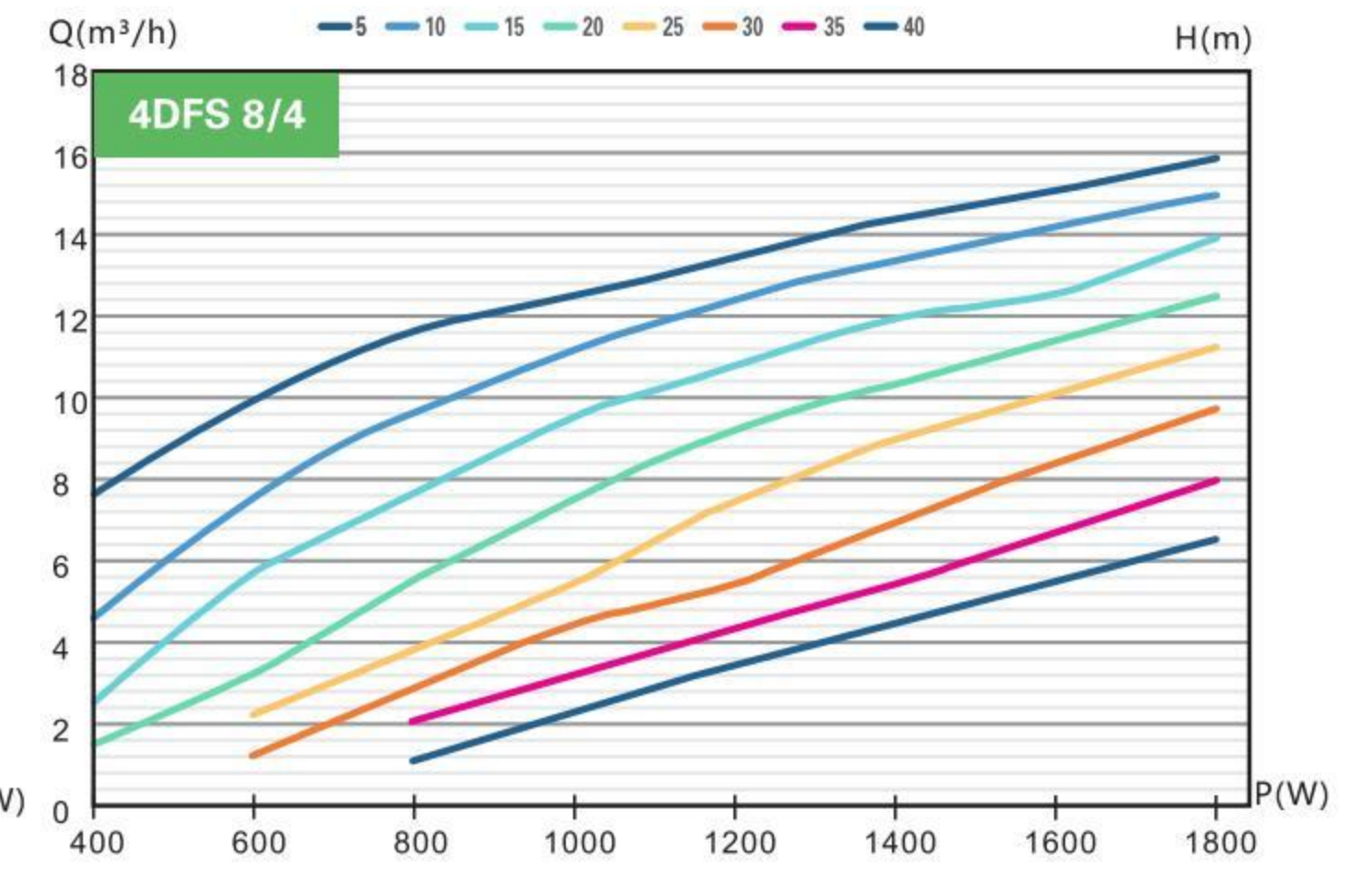
Outlet	Pump size	Cable	PV	Connection mode	Pump body
2"	4"	2m	330W*9	in series	4DFS5/12
2"	4"	2m	330W*3	in series	4DFS8/2



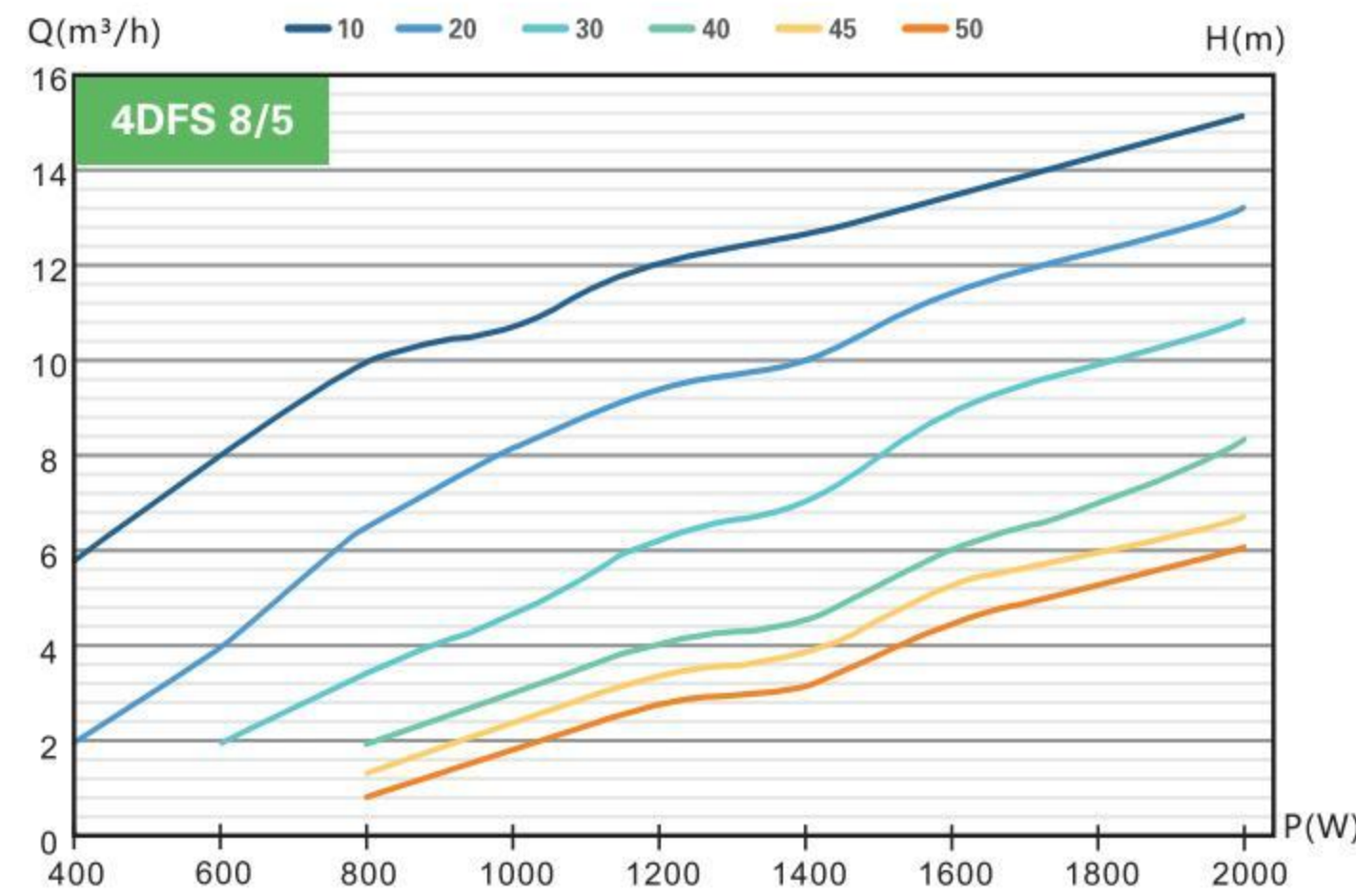
Model	Input Power (W)										
	300	400	500	600	700	800	900	1000	1100	1200	
4DFS15-38-1100	Q(m <sup>3</sup> /h)										
H(m)	5	6.6	8.5	9.6	10.5	11	12	12.8	13.6	14.2	14.8
	10	2.6	5.2	7.2	8.2	8.8	10.3	11.2	11.8	12.6	13.1
	15	0.8	2.6	3.9	5.4	6.2	8	9.1	9.8	10.4	11.2
	20		1.3	2.2	3.4	3.8	5.3	6.5	7.7	8.7	9.4
	25			0.2	1.9	2.3	3.7	4.5	5.4	6.1	7
	30				1.1	1.4	2.6	3.1	4	4.6	5.4

Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4DFS15-38-1100	60-380Vmp(60-440VOC)	90-240VAC	1100W	15m <sup>3</sup> /h	38m
4DFS16.4-51-1500	60-380Vmp(60-440VOC)	90-240VAC	1500W	16.4m <sup>3</sup> /h	51m

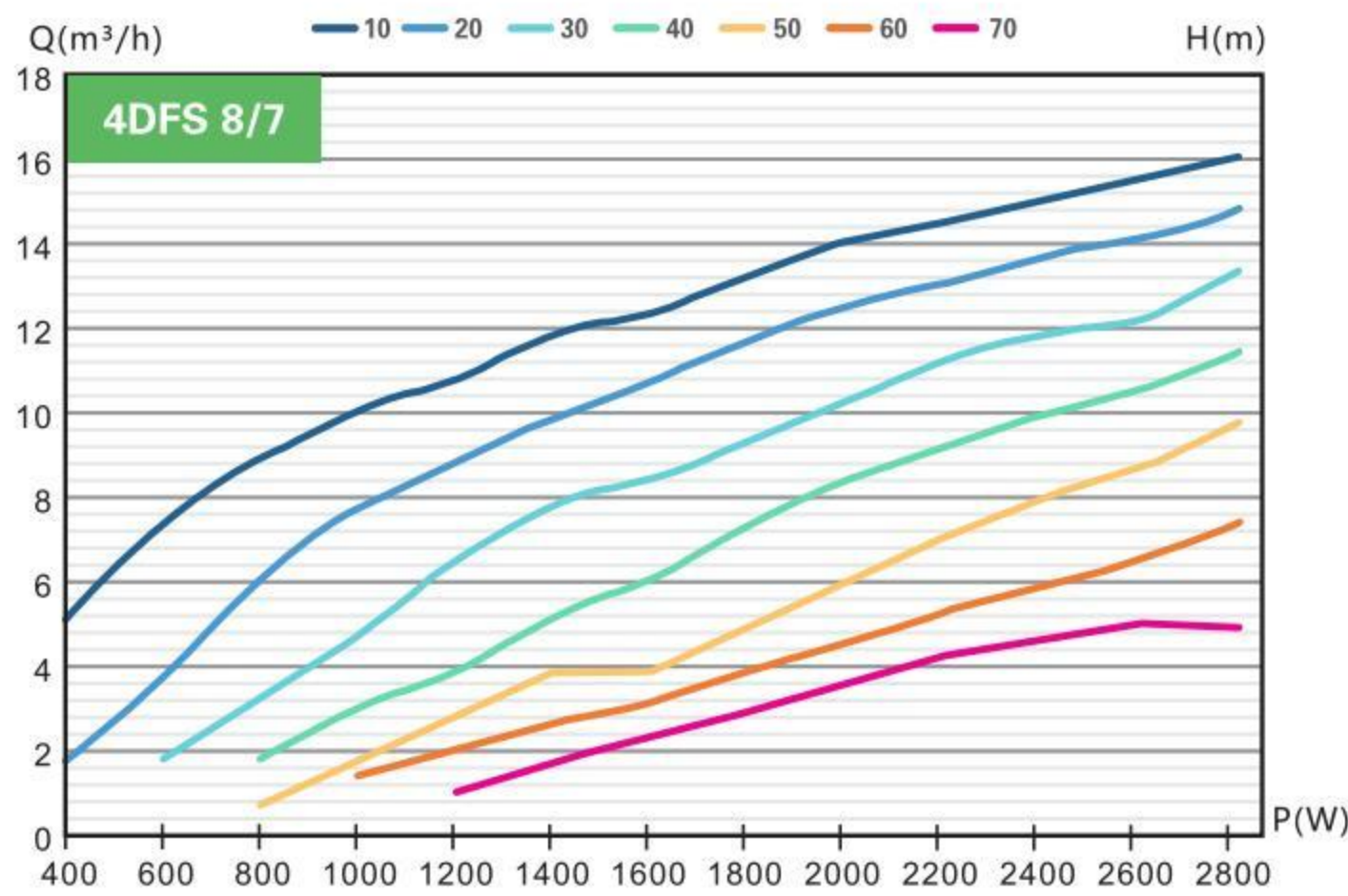
Outlet	Pump size	Cable	PV	Connection mode	Pump body
2"	4"	2m	330W*4	in series	4DFS8/3
2"	4"	2m	330W*6	in series	4DFS8/4



Model	Input Power (W)									
	400	600	800	1000	1200	1400	1600	1800		
4DFS16.4-51-1500	Q(m <sup>3</sup> /h)									
H(m)	5	7.7	10	11.6	12.5	13.5	14.4	15.1	15.9	
	10	4.7	7.6	9.7	11.2	12.4	13.4	14.3	15	
	15	2.6	5.7	7.7	9.6	10.8	12	12.6	13.9	
	20	1.6	3.3	5.6	7.6	9.3	10.4	11.5	12.5	
	25		2.3	3.9	5.5	7.5	9	10.2	11.3	
	30			1.3	2.9	4.5	5.5	7	8.5	9.8
	35				2.1	3.3	4.4	5.5	6.8	8
	40					1.2	2.4	3.5	4.5	5.6



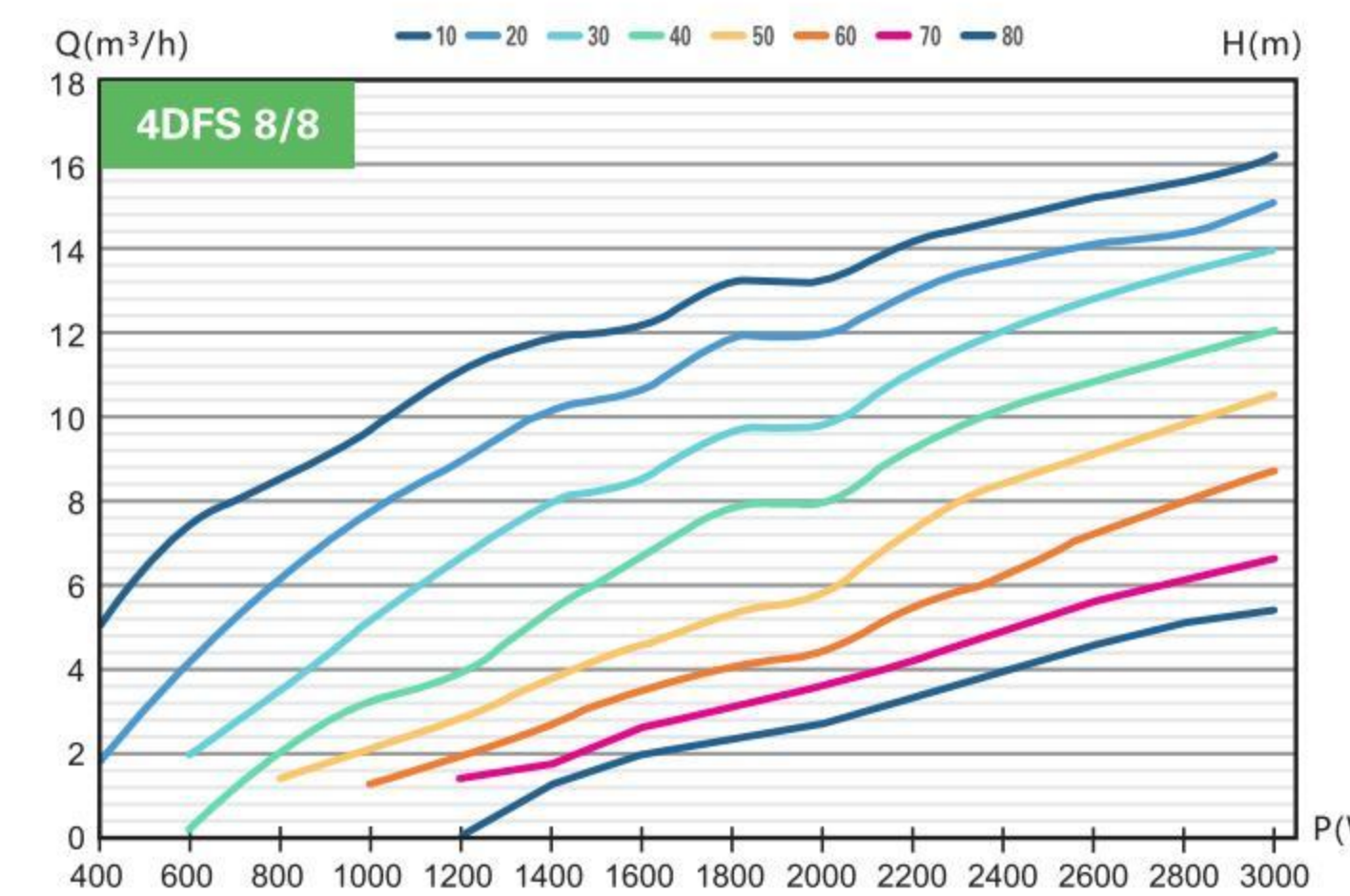
Model	Input Power (W)										
	400	600	800	1000	1200	1400	1600	1800	2000		
4DFS16.1-63-1800	Q(m³/h)										
H(m)	10	5.7	8	9.9	10.7	12	12.6	13.5	14.3	15.1	
	20	1.9	3.9	6.5	8.1	9.4	10	11.4	12.2	13.2	
	30		1.9	3.4	4.6	6.2	7	8.9	9.9	10.8	
	40			1.9	2.9	4	4.5	6	6.9	8.3	
	45				1.3	2.3	3.3	3.8	5.2	5.9	6.7
	50					0.8	1.8	2.7	3.1	4.4	5.2



Model	Input Power (W)														
	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800		
4DFS16.8-81-2600	Q(m³/h)														
H(m)	10	5.2	7.5	9	10.2	10.9	12	12.5	13.4	14.2	14.7	15.3	15.8	16.2	
	20	1.8	3.8	6.2	7.9	9	10.1	10.9	11.9	12.7	13.2	13.9	14.3	15	
	30		1.9	3.4	4.8	6.6	7.9	8.6	9.5	10.4	11.4	12	12.4	13.5	
	40			1.9	3.1	4	5.3	6.2	7.5	8.5	9.3	10.1	10.7	11.6	
	50				0.8	1.9	2.9	3.9	4	5.2	6.1	7.2	8.1	8.8	9.9
	60					1.5	2	2.7	3.2	4	4.6	5.4	6	6.6	7.5
	70						1.1	1.8	2.4	3	3.6	4.3	4.7	5.1	5

Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4DFS16.1-63-1800	60-380Vmp(60-440VOC)	90-240VAC	1800W	16.1m³/h	63m
4DFS16.8-81-2600	60-380Vmp(60-440VOC)	90-240VAC	2600W	16.8m³/h	81m

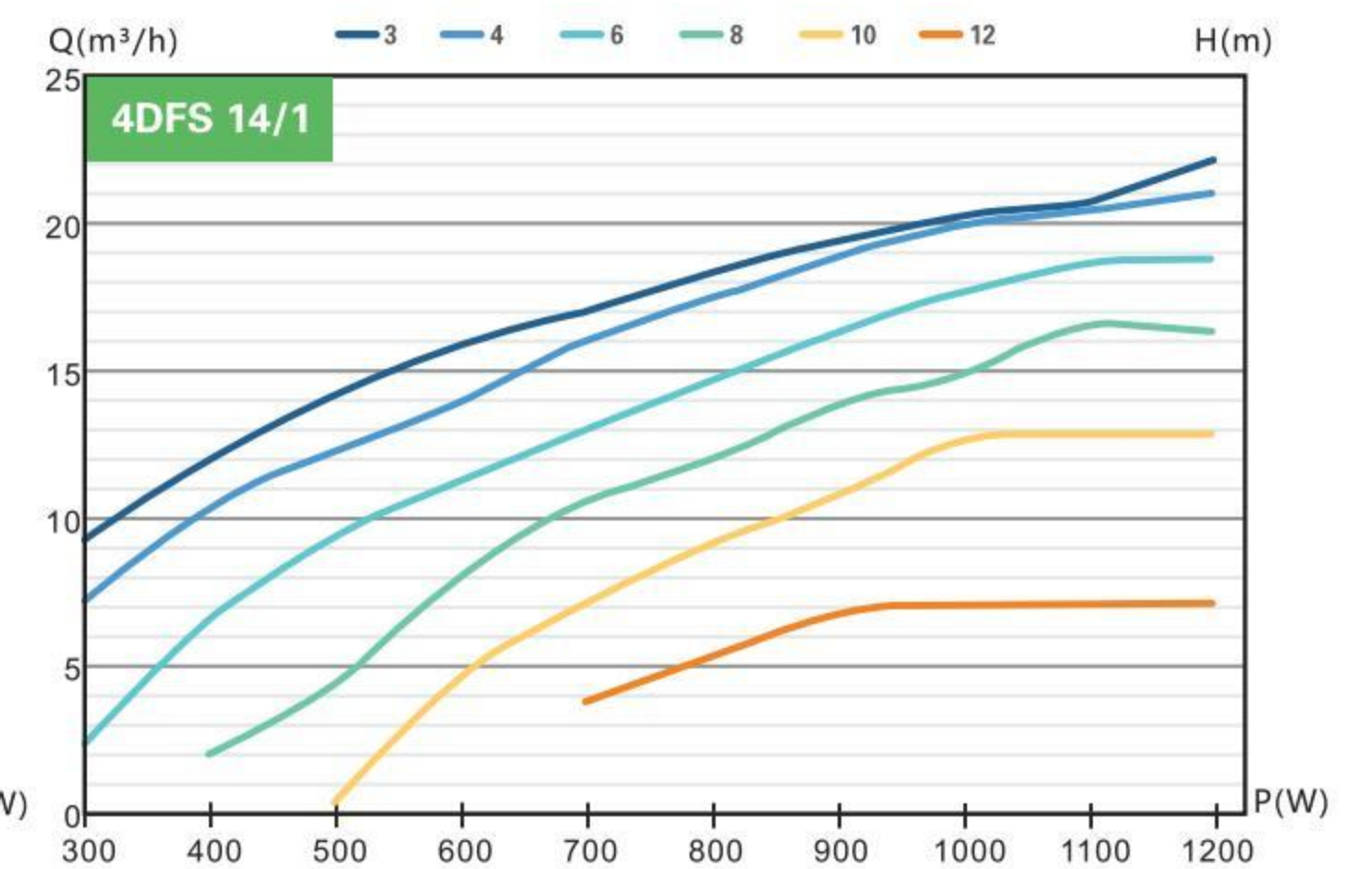
Outlet	Pump size	Cable	PV	Connection mode	Pump body
2"	4"	2m	330W*7	in series	4DFS8/5
2"	4"	2m	330W*9	in series	4DFS8/7



Model	Input Power (W)															
	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000		
4DFS16.7-98-3000	Q(m³/h)															
H(m)	10	5.1	7.4	8.5	9.7	11	11.8	12.1	13.1	13.2	14.1	14.6	15.1	15.5	16.1	
	20	1.9	4.2	6.1	7.7	8.9	10.1	10.6	11.8	11.9	12.9	13.6	14	14.3	15	
	30		2	3.4	5.1	6.6	7.9	8.5	9.6	9.7	11	12	12.7	13.3	13.9	
	40			0.2	2	3.2	3.9	5.4	6.6	7.8	7.9	9.2	10.1	10.8	11.5	12
	50				1.4	2.2	2.8	3.8	4.5	5.3	5.8	7.3	8.4	9.1	9.7	10.5
	60					1.3	1.9	2.7	3.5	4	4.4	5.4	6.2	7.2	8	8.7
	70						1.4	1.8	2.6	3.1	3.6	4.2	4.9	5.6	6.1	6.6
	80							1.2	1.9	2.3	2.7	3.3	4	4.6	5.1	5.4

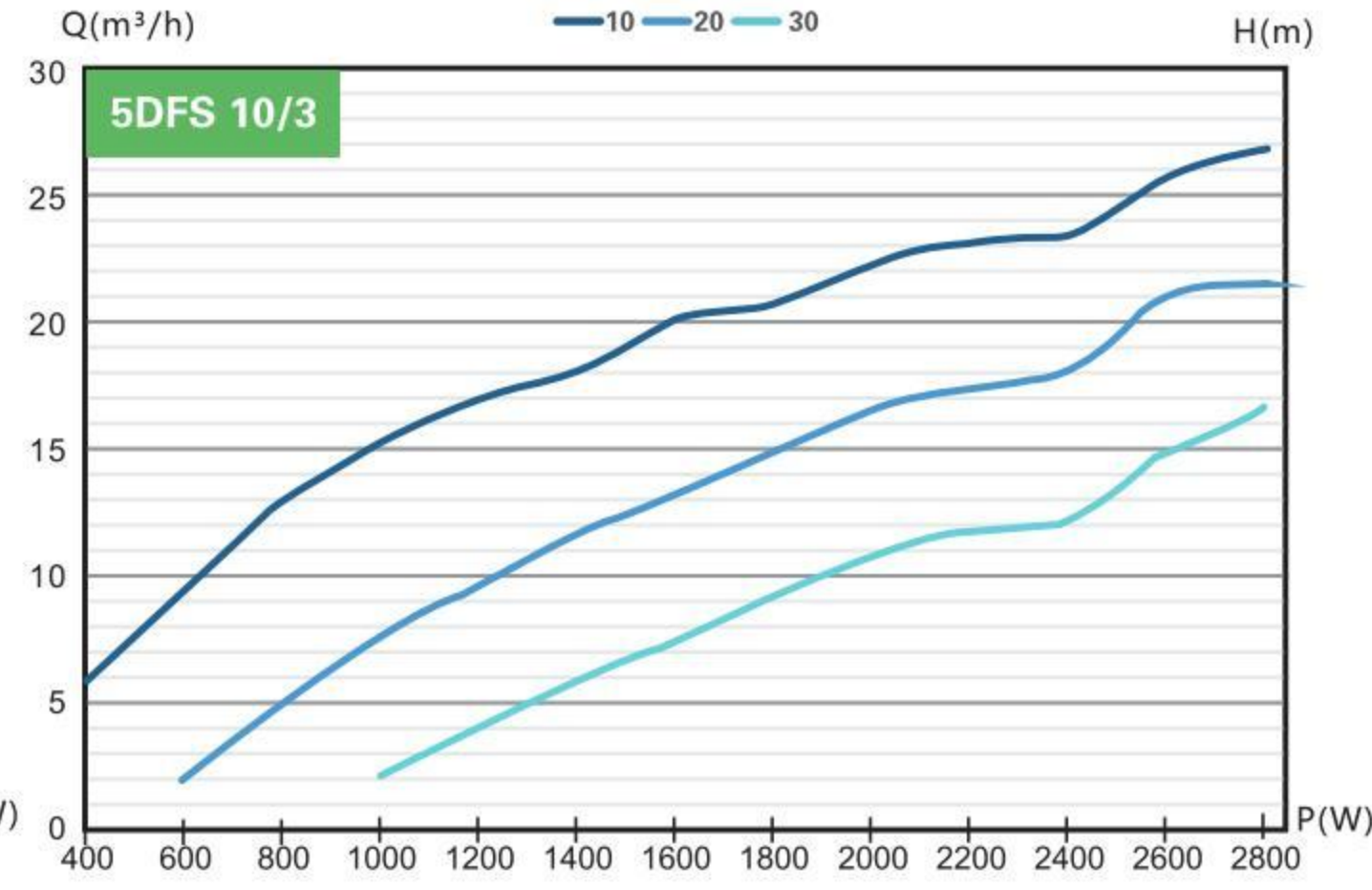
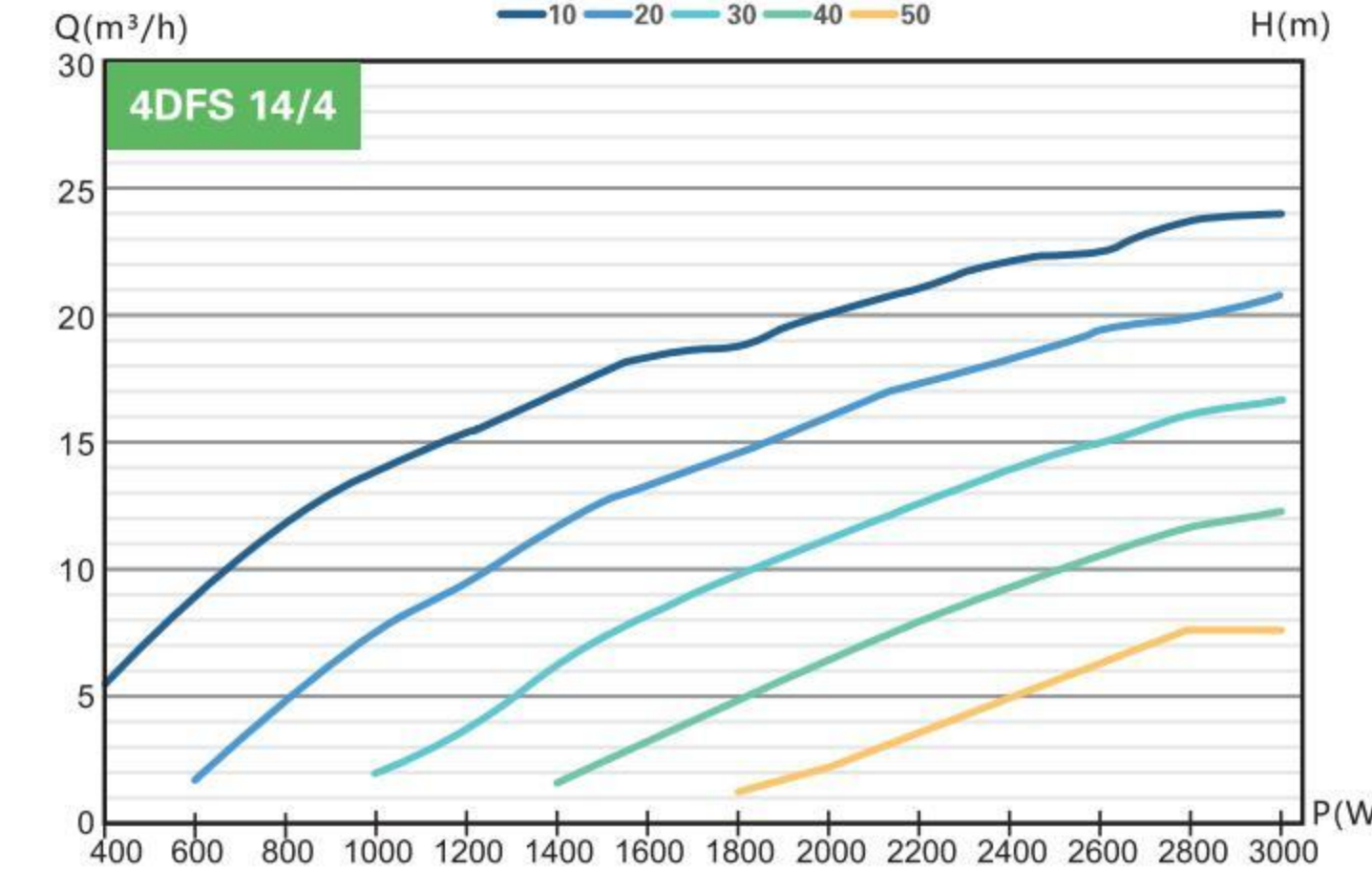
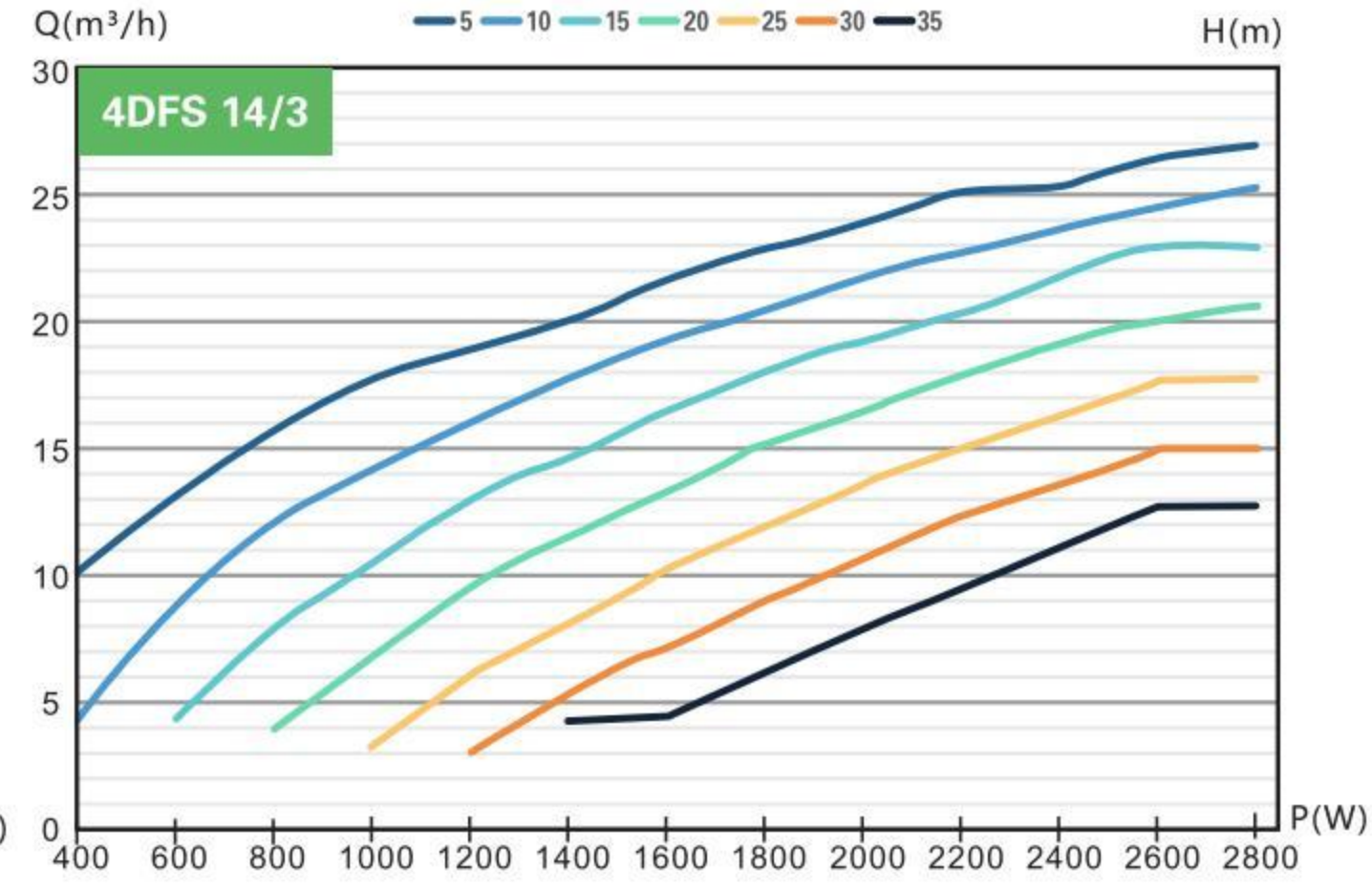
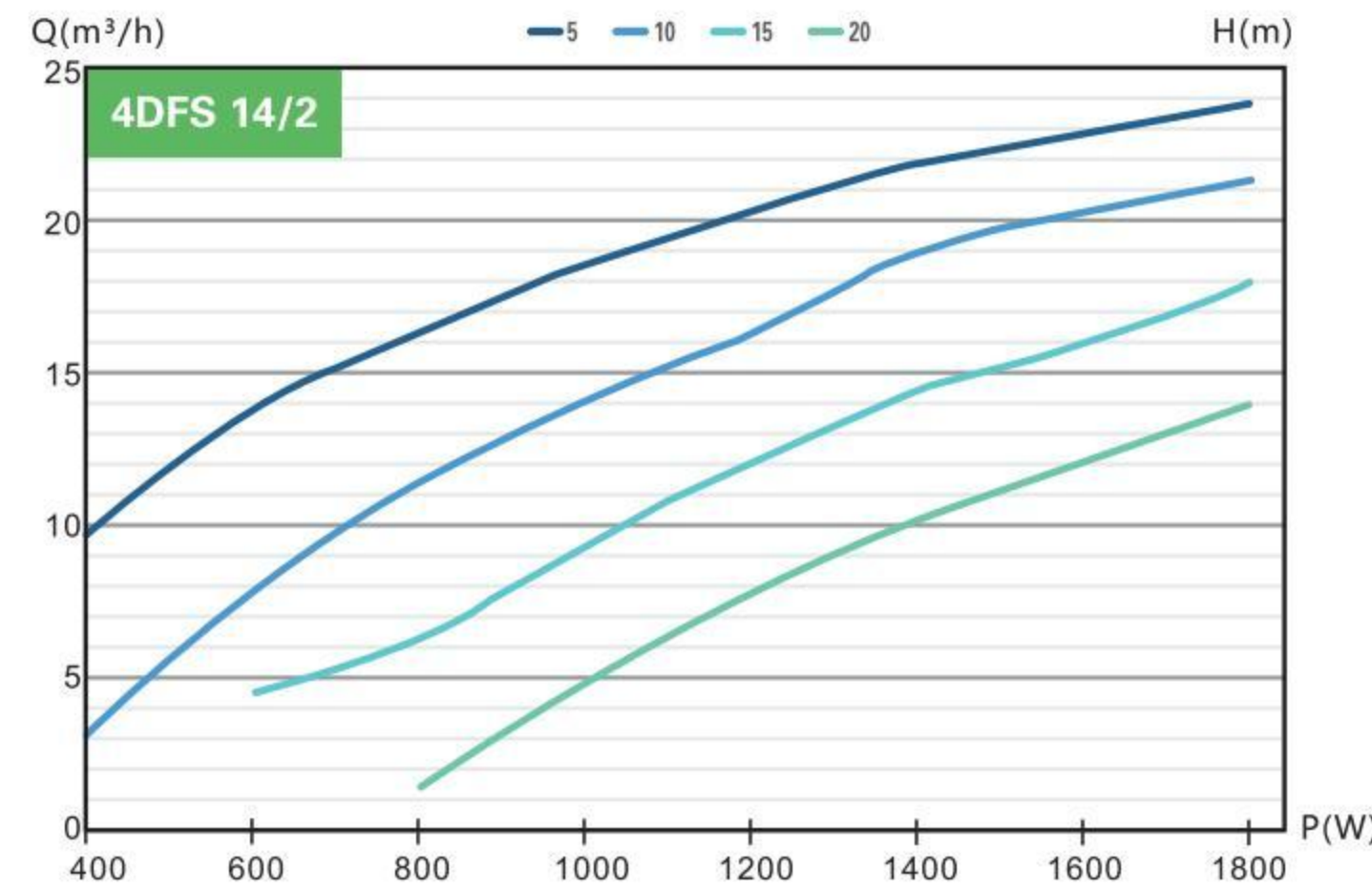
Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4DFS16.7-98-3000	60-380Vmp(60-440VOC)	90-240VAC	3000W	16.7m³/h	98m
4DFS22-12-1100	60-380Vmp(60-440VOC)	90-240VAC	1100W	22m³/h	12m

Outlet	Pump size	Cable	PV	Connection mode	Pump body
2"	4"	2m	330W*9	in series	4DFS8/8
2"	4"	2m	330W*4	in series	4DFS14/1



Model	Input Power (W)										
	300	400	500	600	700	800	900	1000	1100	1200	
4DFS22-12-1100	Q(m³/h)										
H(m)	3	9.3	11.9	14.1	15.8	17	18.3	19.3	20.2	20.6	22
	4	7.2	10.3	12.3	13.9	16	17.4	18.8	19.9	20.4	21
	6	2.4	6.6	9.3	11.2	13	14.7	16.3	17.6	18.6	18.8
	8		2	4.4	8	10.5	11.9	13.8	14.8	16.5	16.3
	10			0.4	4.6	7.1	9.1	10.7	12.6	12.9	12.8
	12					3.8	5.3	6.7	7.1	7.1	7.1





Model	Input Power (W)								
	400	600	800	1000	1200	1400	1600	1800	
4DFS24.1-27-1500	Q(m³/h)								
H(m)	5	9.9	13.8	16.1	18.4	20.2	21.7	22.7	23.7
	10	3.2	7.8	11.3	14	16.2	18.8	20.1	21.2
	15		4.5	6.2	9.4	12	14.3	15.8	17.8
	20			1.4	4.9	7.6	10	12.2	13.9

Model	Input Power (W)													
	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	
4DFS27-38-2600	Q(m³/h)													
H(m)	5	10	13.1	15.6	17.6	18.8	20	21.5	22.8	23.7	24.8	25.1	26.3	27
	10	4.3	8.8	12	14.1	16	17.7	19.2	20.3	21.7	22.7	23.6	24.5	25.2
	15		4.3	7.8	10.4	12.9	14.5	16.4	18	19.2	20.2	21.7	22.9	
	20			3.8	6.7	9.4	11.5	13.2	15.1	16.4	17.9	19.1	20.1	20.6
	25				3.2	6	8	10.2	11.9	13.6	15	16.2	17.6	17.7
	30					3	5.3	7.2	8.9	10.8	12.3	13.5	15	15
	35						4.2	4.4	6.2	7.9	9.4	11.1	12.6	12.6

Model	Input Power (W)														
	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
4DFS25.5-52-3000	Q(m³/h)														
H(m)	10	5.4	8.8	11.9	13.9	15.3	16.9	18.4	18.9	20.1	21.1	22.2	22.6	23.7	24
	20		1.7	4.8	7.5	9.4	11.7	13.4	14.6	16.1	17.4	18.3	19.4	20	20.8
	30				1.9	3.7	6.1	8.2	9.7	11	12.6	14	15	16.1	16.7
	40						1.6	3.4	4.9	6.4	7.9	9.3	10.6	11.7	12.3
	50								1.2	2.2	3.7	5.1	6.4	7.6	7.6

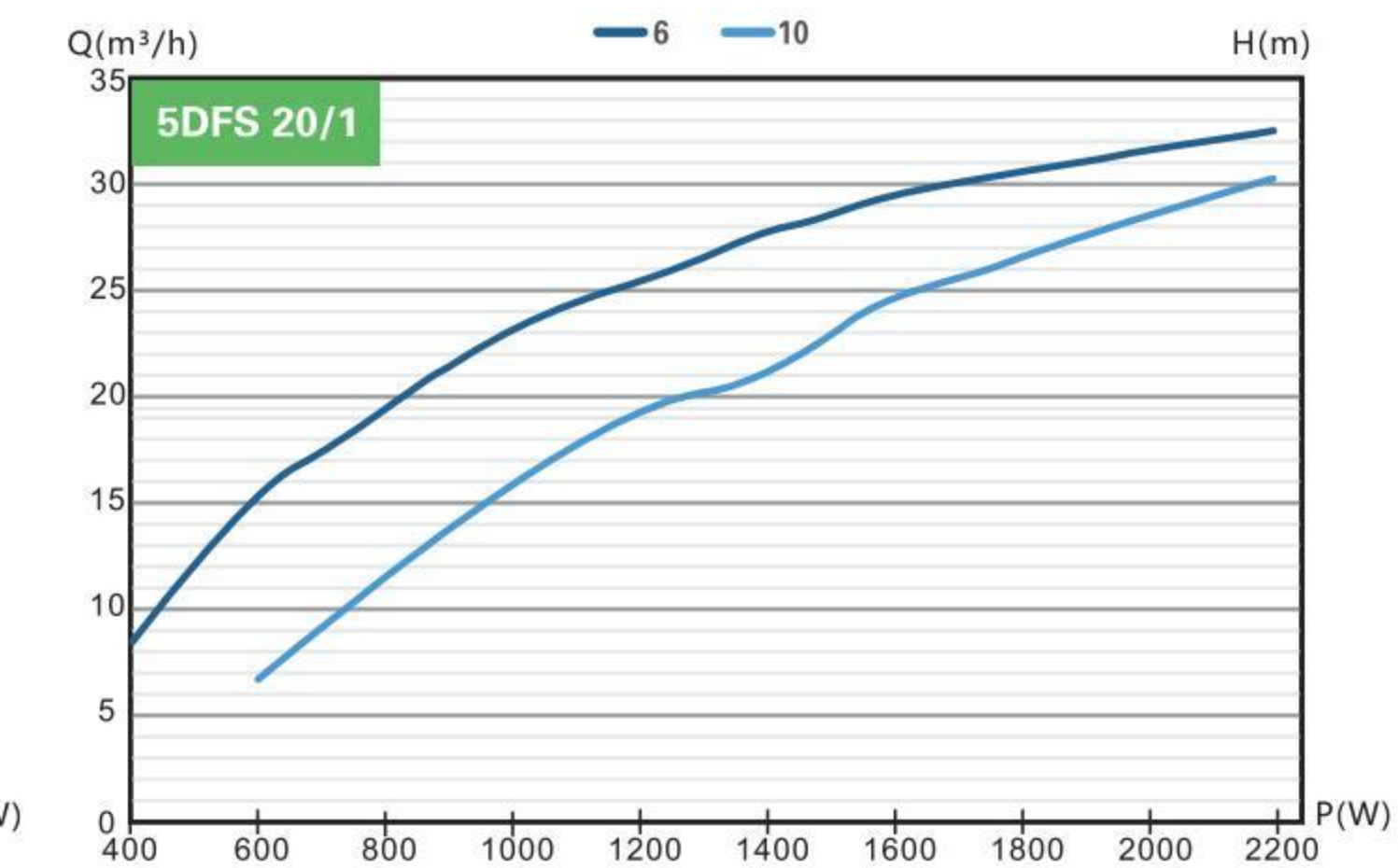
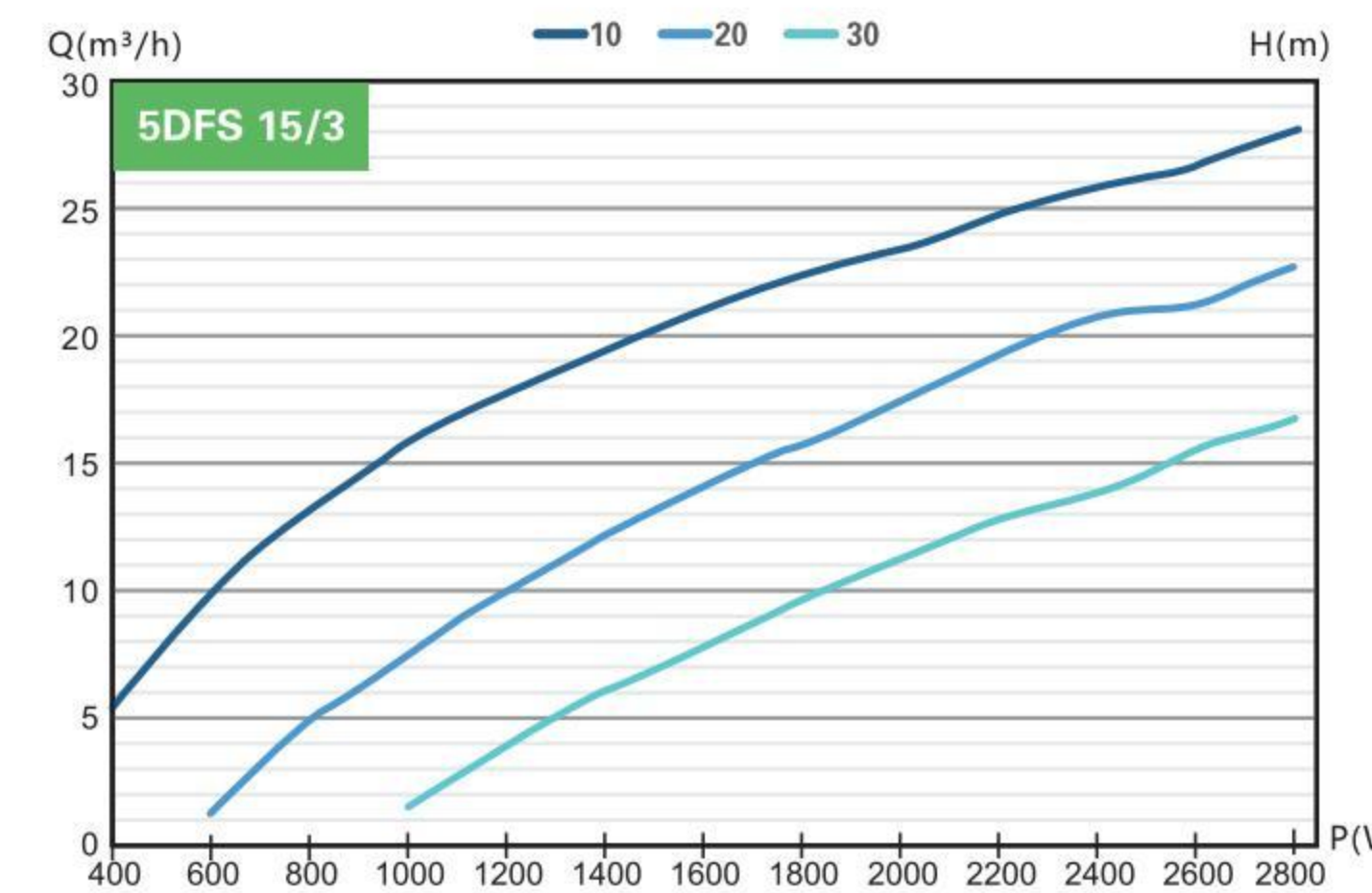
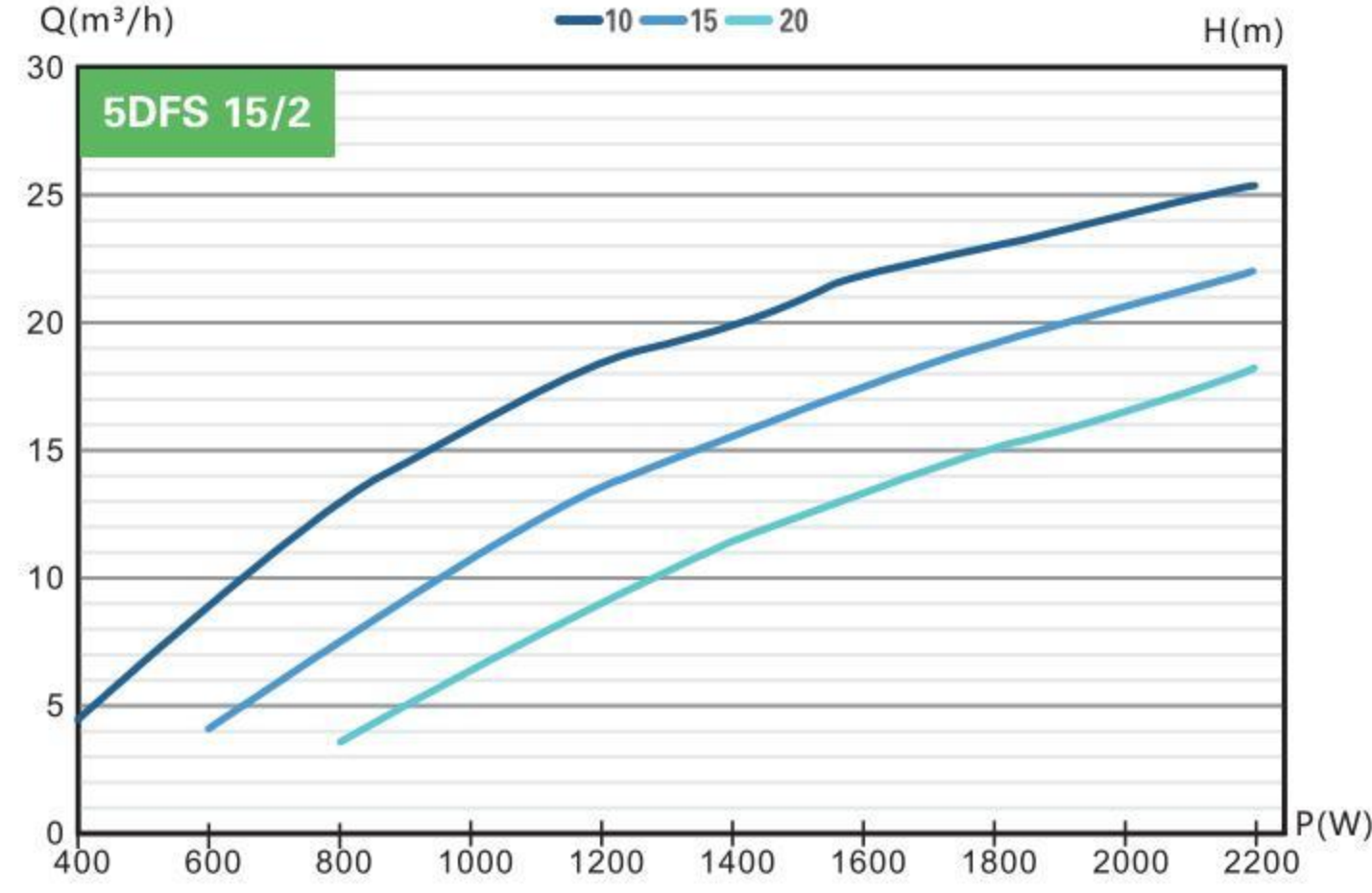
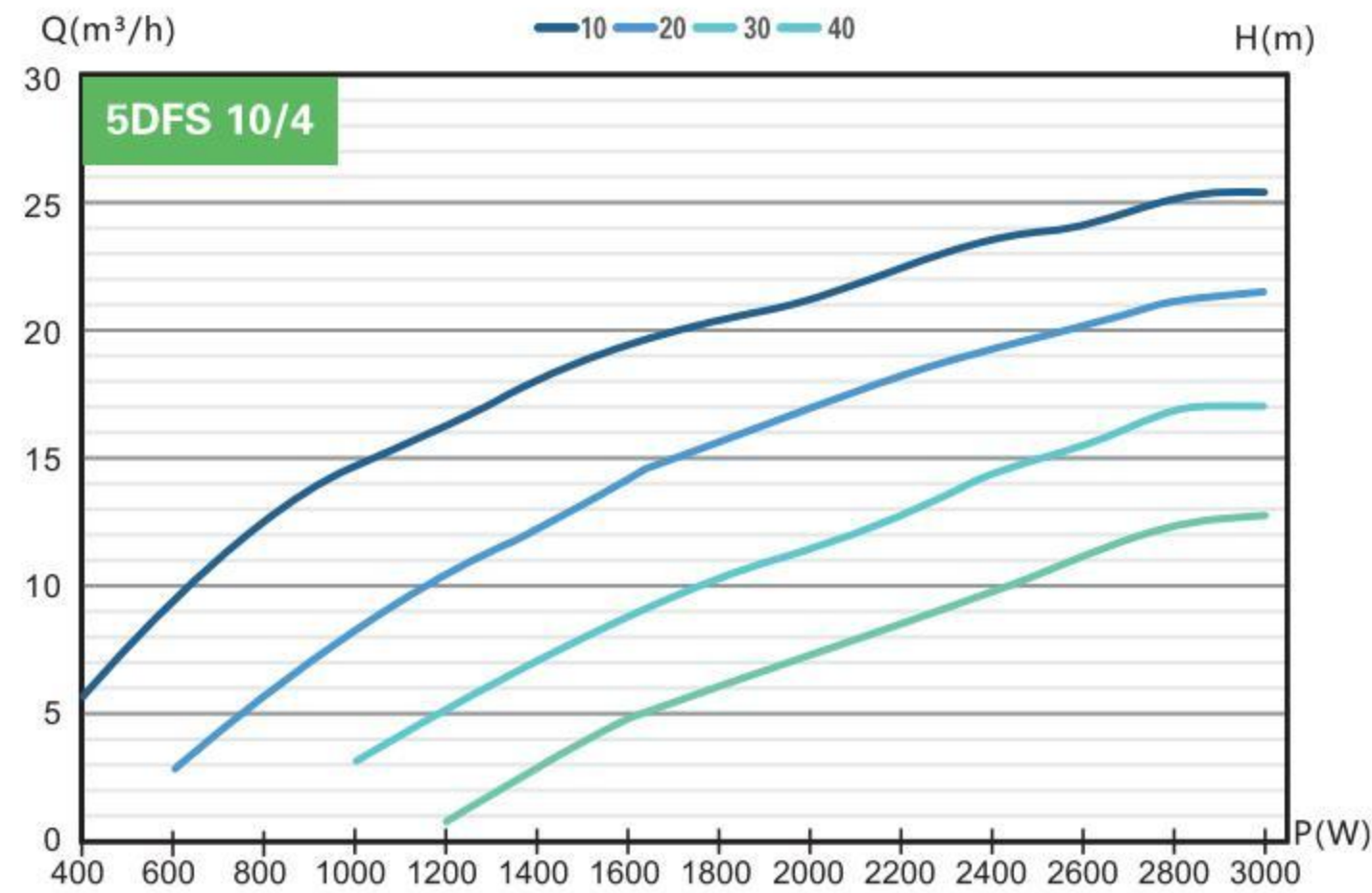
Model	Input Power (W)													
	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	
4/5DFS28.2-58-2600	Q(m³/h)													
H(m)	10	5.7	9.3	12.9	15.1	17	18	20	20.8	22.3	23.2	23.5	25.8	26.9
	20		1.9	4.9	7.5	9.6	11.6	13.3	14.9	16.5	17.4	18.2	21	21.6
	30				2	4	5.8	7.4	9.2	10.7	11.8	12.2	14.9	16.5

Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4DFS24.1-27-1500	60-380Vmp(60-440VOC)	90-240VAC	1500W	24.1m³/h	27m
4DFS27-38-2600	60-380Vmp(60-440VOC)	90-240VAC	2600W	27m³/h	38m

Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4DFS25.5-52-3000	60-380Vmp(60-440VOC)	90-240VAC	3000W	25.5m³/h	52m
4/5DFS28.2-58-2600	60-380Vmp(60-440VOC)	90-240VAC	2600W	28.2m³/h	58m

Outlet	Pump size	Cable	Connection mode	Pump body
2"	4"	2m	in series	4DFS14/2
2"	4"	2m	in series	4DFS14/3

Outlet	Pump size	Cable	PV	Connection mode	Pump body
2"	4"	2m	330W*9	in series	4DFS14/4
2.5"	5"	2m	330W*9	in series	5DFS10/3



Model	Input Power (W)													
	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
4/5DFS26.5-81-3000	Q(m³/h)													
H(m)	10	5.6	9.5	12.5	14.7	16.2	18	19.4	20.4	21.2	22.4	23.5	24.1	25.4
	20	2.7	5.7	8.2	10.3	12.2	14.2	15.6	16.8	18.1	19.3	20.1	21	21.5
	30			3.1	5.2	7.1	8.7	10.2	11.4	12.8	14.3	15.4	16.8	17.1
	40				0.8	2.9	4.7	6	7.3	8.5	9.7	11.1	12.4	12.8

Model	Input Power (W)										
	400	600	800	1000	1200	1400	1600	1800	2000	2200	
4/5DFS28-44-2200	Q(m³/h)										
H(m)	10	4.3	8.9	12.9	15.9	18.4	19.9	21.8	23	24.3	25.4
	15		3.9	7.3	10.6	13.4	15.7	17.4	19.2	20.6	22
	20			3.5	6.4	8.8	11.3	13.3	15	16.5	18.2

Model	Input Power (W)													
	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	
4/5DFS28.5-59-2600	Q(m³/h)													
H(m)	10	5.2	9.7	12.9	15.6	17.6	19.2	20.9	22.3	23.3	24.5	25.6	26.5	27.9
	20		1.1	4.7	7.3	9.9	12	14	15.6	17.4	19	20.6	21.1	22.5
	30				1.3	3.7	5.9	7.7	9.4	11	12.7	13.7	15.4	16.6

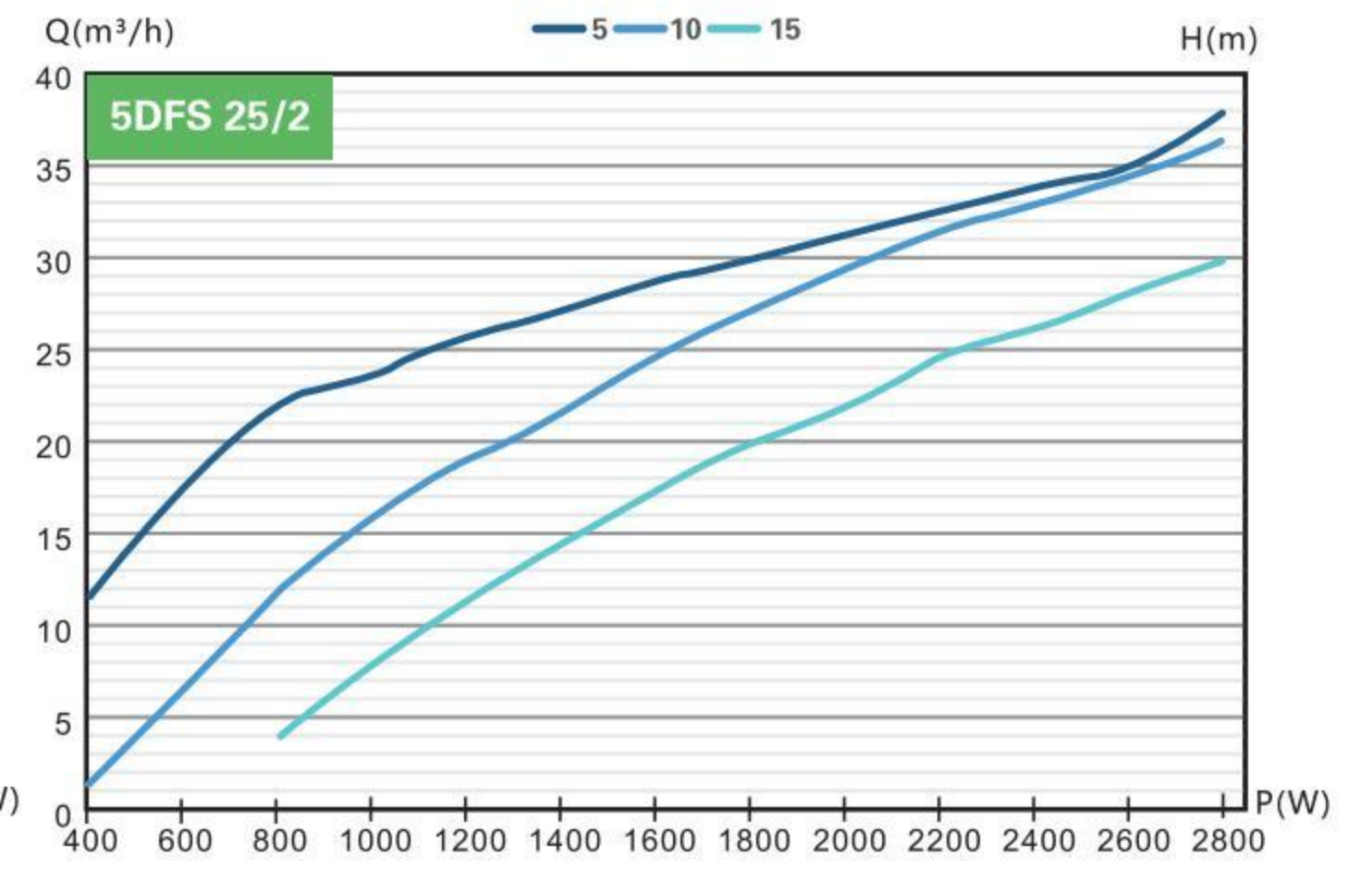
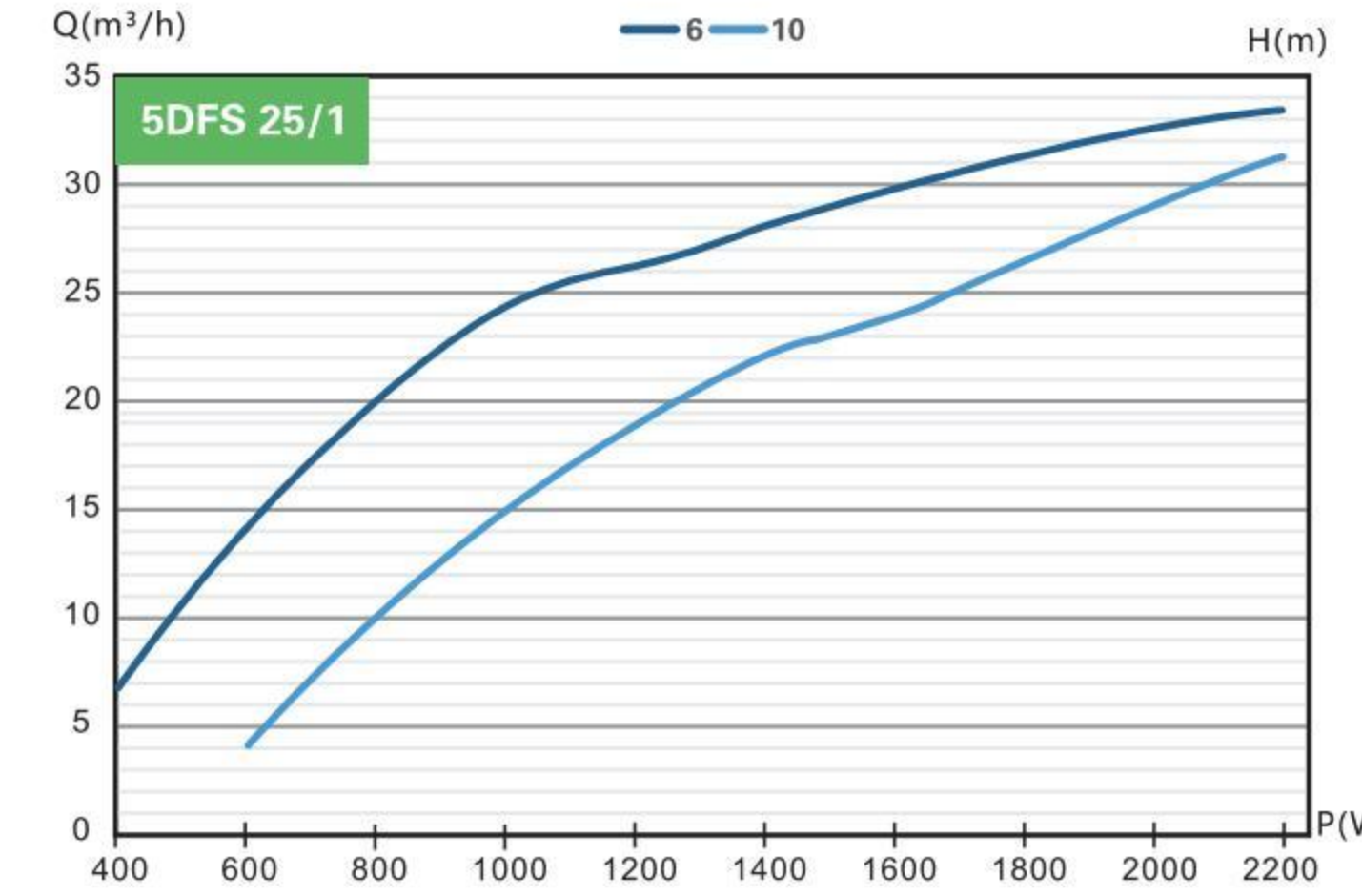
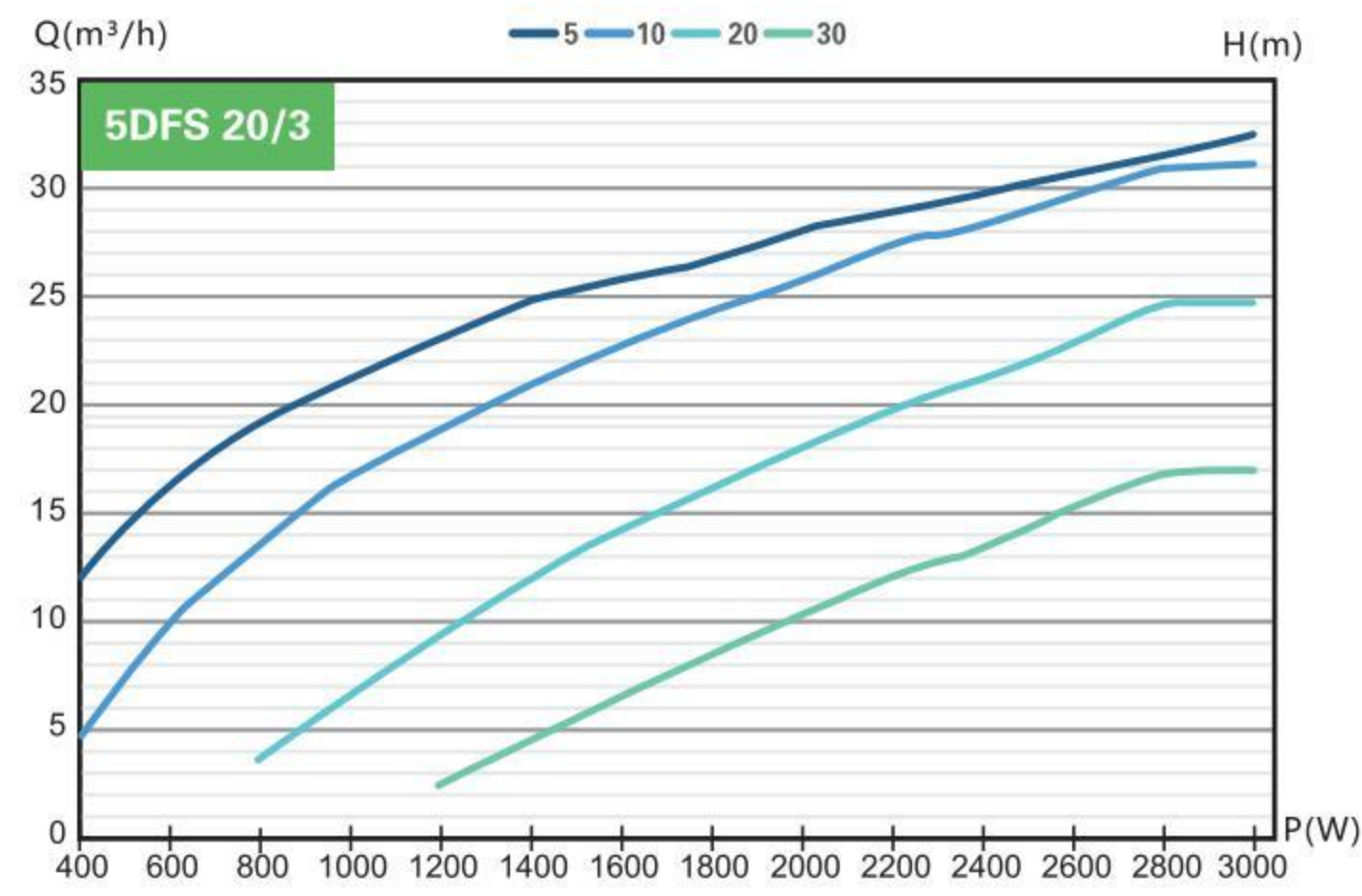
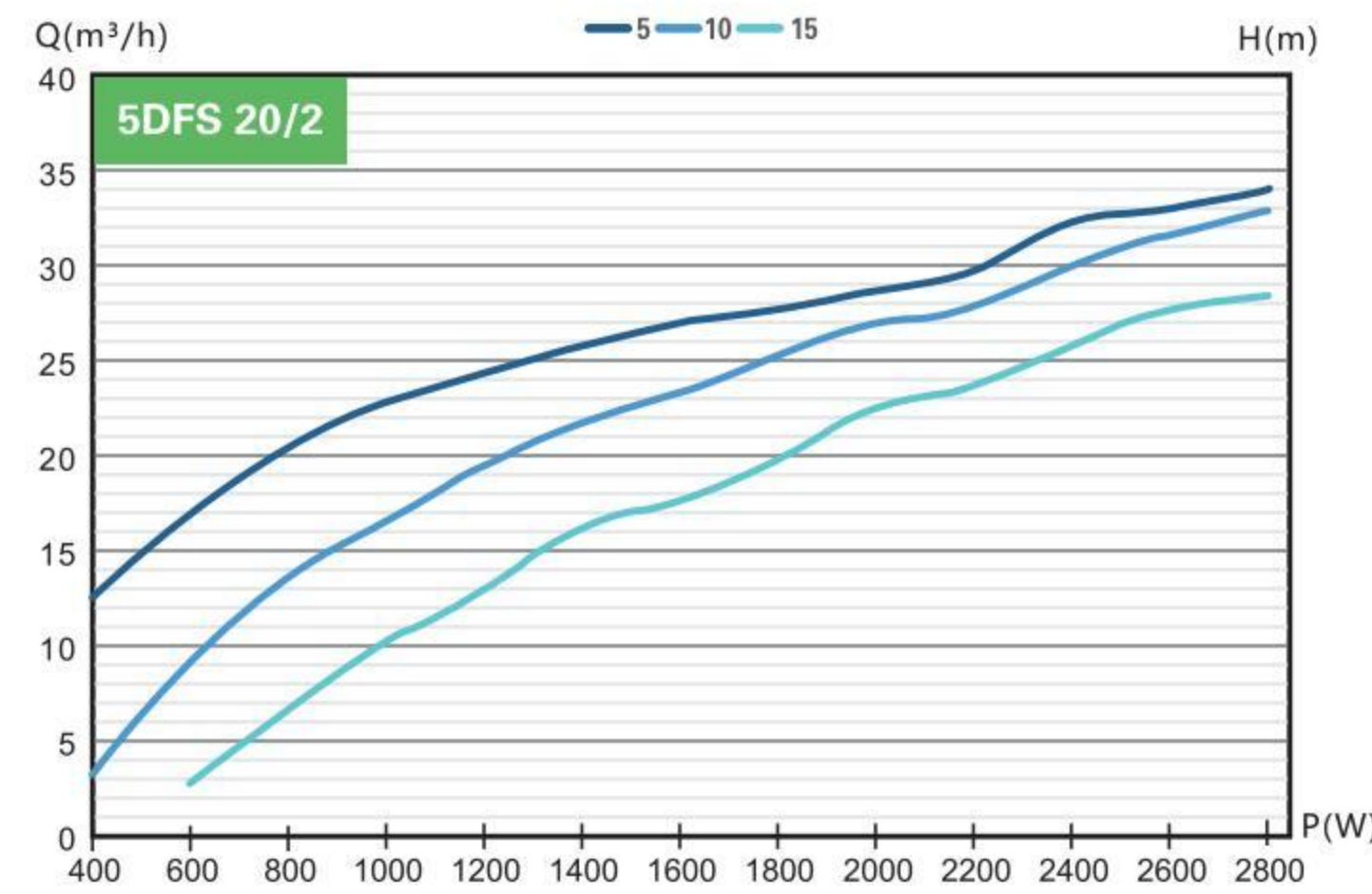
Model	Input Power (W)										
	400	600	800	1000	1200	1400	1600	1800	2000	2200	
4/5DFS32.5-22-2200	Q(m³/h)										
H(m)	6	8.5	15.2	19.3	23	25.3	27.5	29.3	30.4	31.4	32.4
	10		6.6	11.4	15.7	19.2	21.1	24.4	26.4	28.2	30.2

Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4/5DFS26.5-81-3000	60-380Vmp(60-440VOC)	90-240VAC	3000W	26.5m³/h	81m
4/5DFS28-44-2200	60-380Vmp(60-440VOC)	90-240VAC	2200W	28m³/h	44m

Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4/5DFS28.5-59-2600	60-380Vmp(60-440VOC)	90-240VAC	2600W	28.5m³/h	59m
4/5DFS32.5-22-2200	60-380Vmp(60-440VOC)	90-240VAC	2200W	32.5m³/h	22m

Outlet	Pump size	Cable	PV	Connection mode	Pump body
2.5"	5"	2m	330W*9	in series	5DFS10/4
2.5"	5"	2m	330W*8	in series	5DFS15/2

Outlet	Pump size	Cable	PV	Connection mode	Pump body
2.5"	5"	2m	330W*9	in series	5DFS15/3
2.5"	5"	2m	330W*8	in series	5DFS20/1



Model	Input Power (W)													
	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	
4/5DFS33.8-41-2600	Q(m <sup>3</sup> /h)													
H(m)	5	12.3	16.8	20.2	22.5	24.2	25.5	26.8	27.5	28.5	29.5	32.1	32.8	33.8
	10	3	9	13.3	16.3	19.3	21.5	23.1	25.1	26.7	27.6	29.8	31.4	32.6
	15		2.6	6.4	10	12.7	15.9	17.5	19.6	22.3	23.5	25.6	27.4	28.2

Model	Input Power (W)														
	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
4/5DFS32.5-64-3000	Q(m <sup>3</sup> /h)														
H(m)	5	12	16.3	19.1	21.1	23.1	24.8	25.8	26.7	28.1	28.9	29.8	30.7	31.6	32.5
	10	4.5	9.8	13.5	16.7	18.9	20.9	22.8	24.3	25.8	27.4	28.3	29.7	30.9	31.1
	20			3.6	6.6	9.2	11.9	14.3	16.2	18	19.7	21.3	22.8	24.6	24.7
	30					2.4	4.6	6.6	8.4	10.2	12.1	13.4	15.3	16.8	17

Model	Input Power (W)										
	400	600	800	1000	1200	1400	1600	1800	2000	2200	
4/5DFS33.5-21-2200	Q(m <sup>3</sup> /h)										
H(m)	6	6.7	14.1	19.8	24.3	26.1	27.9	29.7	31.2	32.4	33.3
	10		4.1	10	14.8	18.7	22	23.8	26.3	28.9	31.1

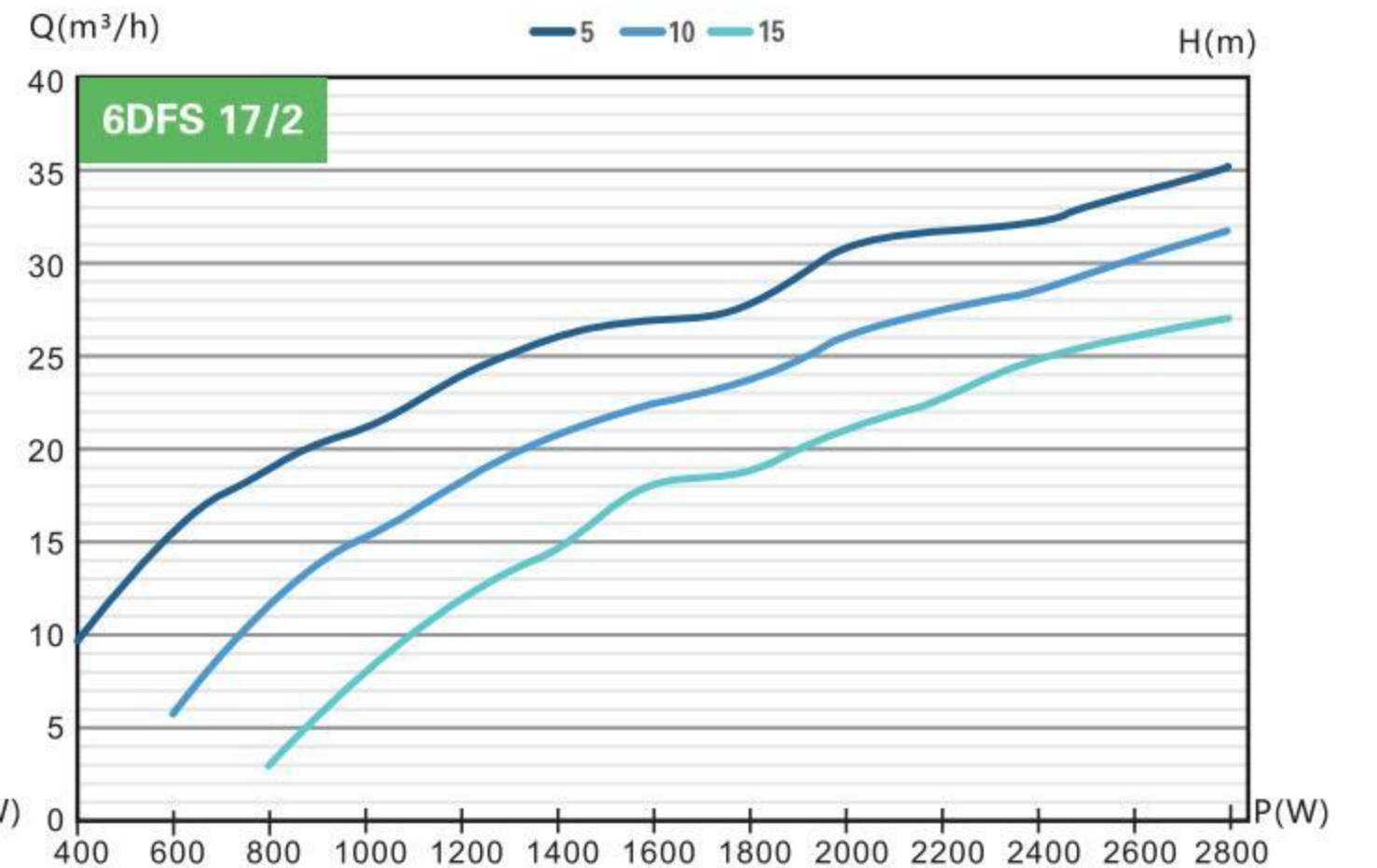
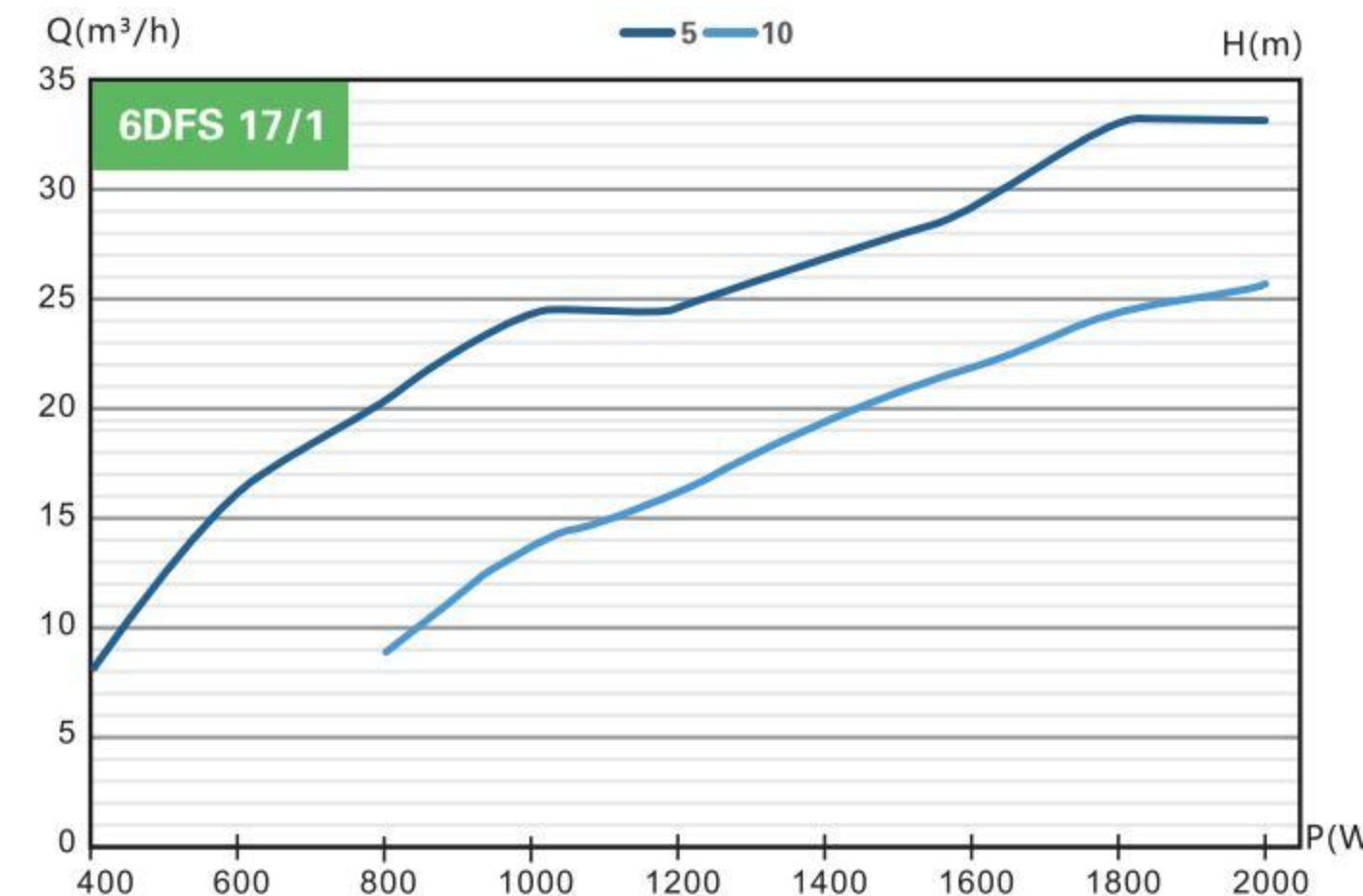
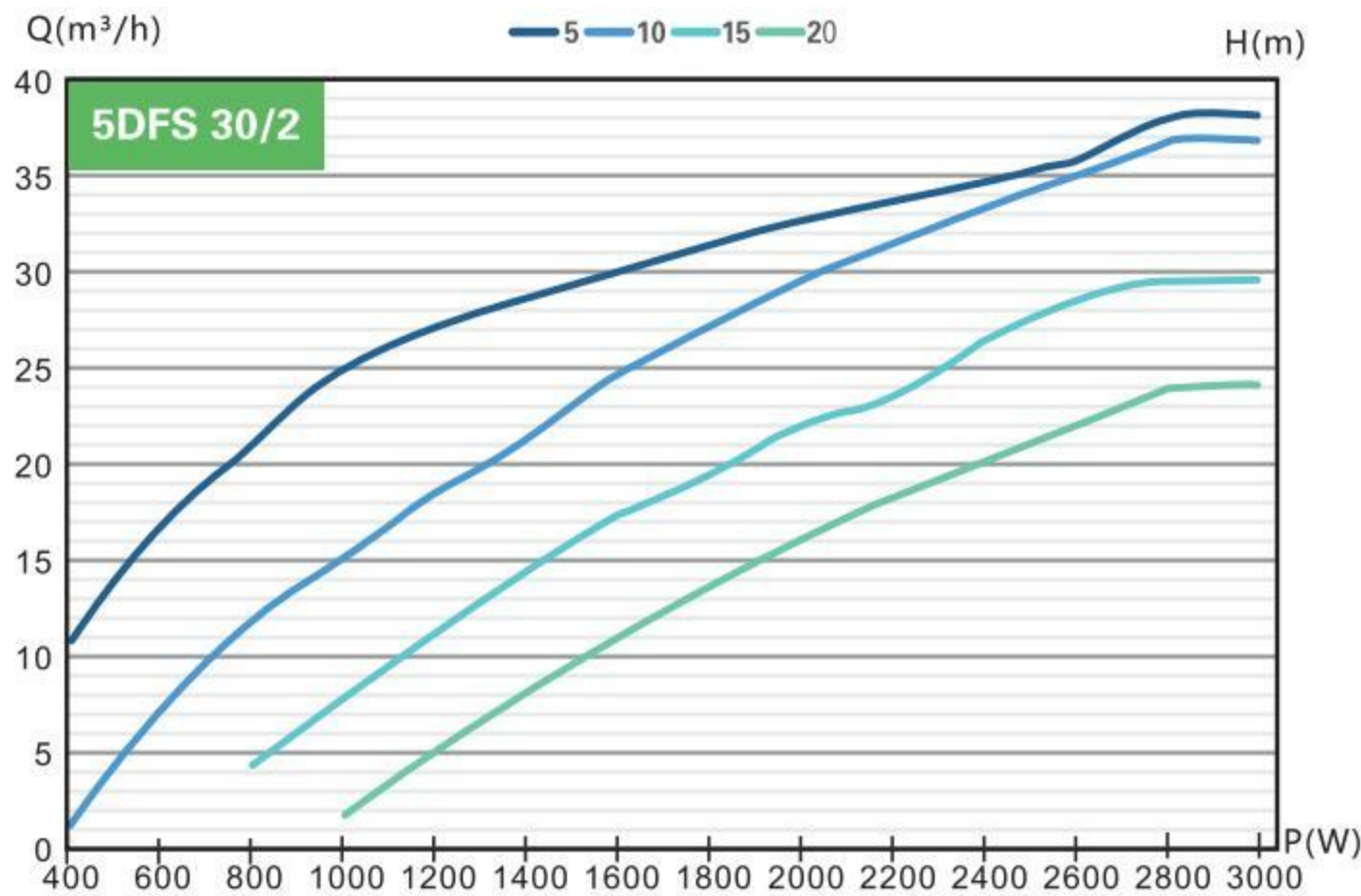
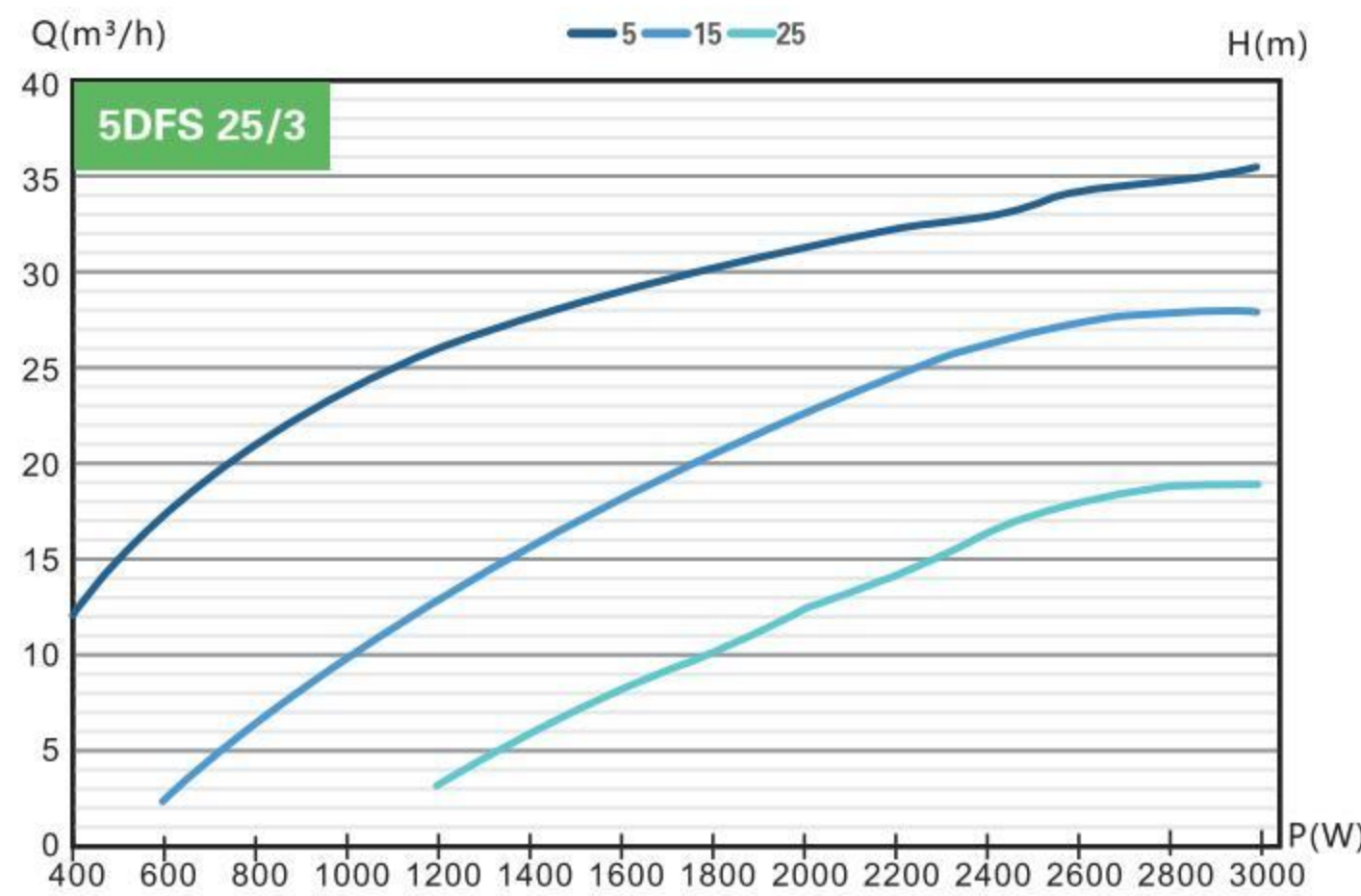
Model	Input Power (W)													
	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	
4/5DFS38-39-2600	Q(m <sup>3</sup> /h)													
H(m)	5	11.5	17.5	22.1	23.7	25.8	27.2	28.8	29.9	31.4	32.6	34	35	38
	10	1.2	6.5	11.9	15.9	19	21.8	24.6	27.2	29.4	31.6	33	34.5	36.5
	15			3.9	8	11.4	14.4	17.4	20	21.8	24.6	26.2	28.2	29.8

Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4/5DFS33.8-41-2600	60-380Vmp(60-440VOC)	90-240VAC	2600W	33.8m <sup>3</sup> /h	41m
4/5DFS32.5-64-3000	60-380Vmp(60-440VOC)	90-240VAC	3000W	32.5m <sup>3</sup> /h	64m

Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4/5DFS33.5-21-2200	60-380Vmp(60-440VOC)	90-240VAC	2200W	33.5m <sup>3</sup> /h	21m
4/5DFS38-39-2600	60-380Vmp(60-440VOC)	90-240VAC	2600W	38m <sup>3</sup> /h	39m

Outlet	Pump size	Cable	PV	Connection mode	Pump body
2.5"	5"	2m	330W*9	in series	5DFS20/2
2.5"	5"	2m	330W*9	in series	5DFS20/3

Outlet	Pump size	Cable	PV	Connection mode	Pump body
2.5"	5"	2m	330W*8	in series	5DFS25/1
2.5"	5"	2m	330W*9	in series	5DFS25/2



Model	Input Power (W)															
	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000		
4/5DFS35.8-54-3000	Q(m <sup>3</sup> /h)															
H(m)	5	11.9	17.2	20.7	23.7	25.9	27.6	28.9	30.1	31.2	32.2	32.8	34.1	34.6	35.5	
	15	2.2	6	9.8	12.9	15.7	18	20.3	22.5	24.4	26	27.3	27.8	27.9		
	25	3	5.7	8	9.9	12.2	14	16.1	17.8	18.7	18.8					

Model	Input Power (W)															
	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000		
4/5DFS38-41-3000	Q(m <sup>3</sup> /h)															
H(m)	5	10.7	16.6	21	25	26.9	28.5	29.8	31.3	32.4	33.5	34.6	35.6	37.8	38	
	10	1.2	7.1	11.7	15.1	18.4	21.3	24.5	27.1	29.4	31.4	33.2	34.8	36.6	36.7	
	15	4.2	7.7	11.2	14.3	17.2	19.4	21.9	23.4	26.2	28.4	29.4	29.5			
	20	1.7	5.2	8.2	10.8	13.5	15.9	18.2	20	21.8	23.7	24.1				

Model	Input Power (W)									
	400	600	800	1000	1200	1400	1600	1800	2000	
4/6DFS37.2-22-1800	Q(m <sup>3</sup> /h)									
H(m)	5	8.1	16.2	20.3	24.3	24.6	26.8	28.9	32.9	33
	10	8.9	13.7	16.1	19.4	21.8	24.3	25.6		

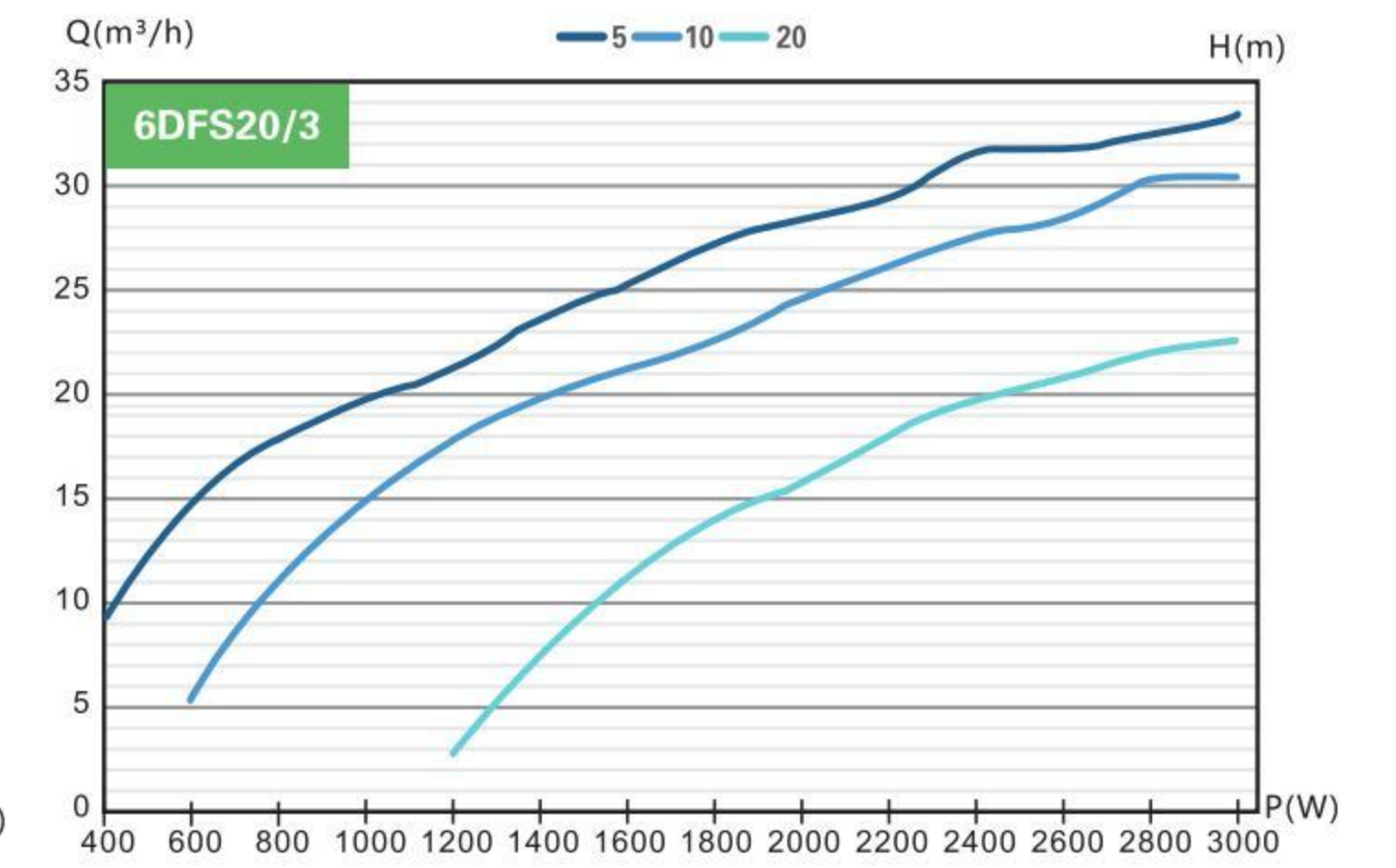
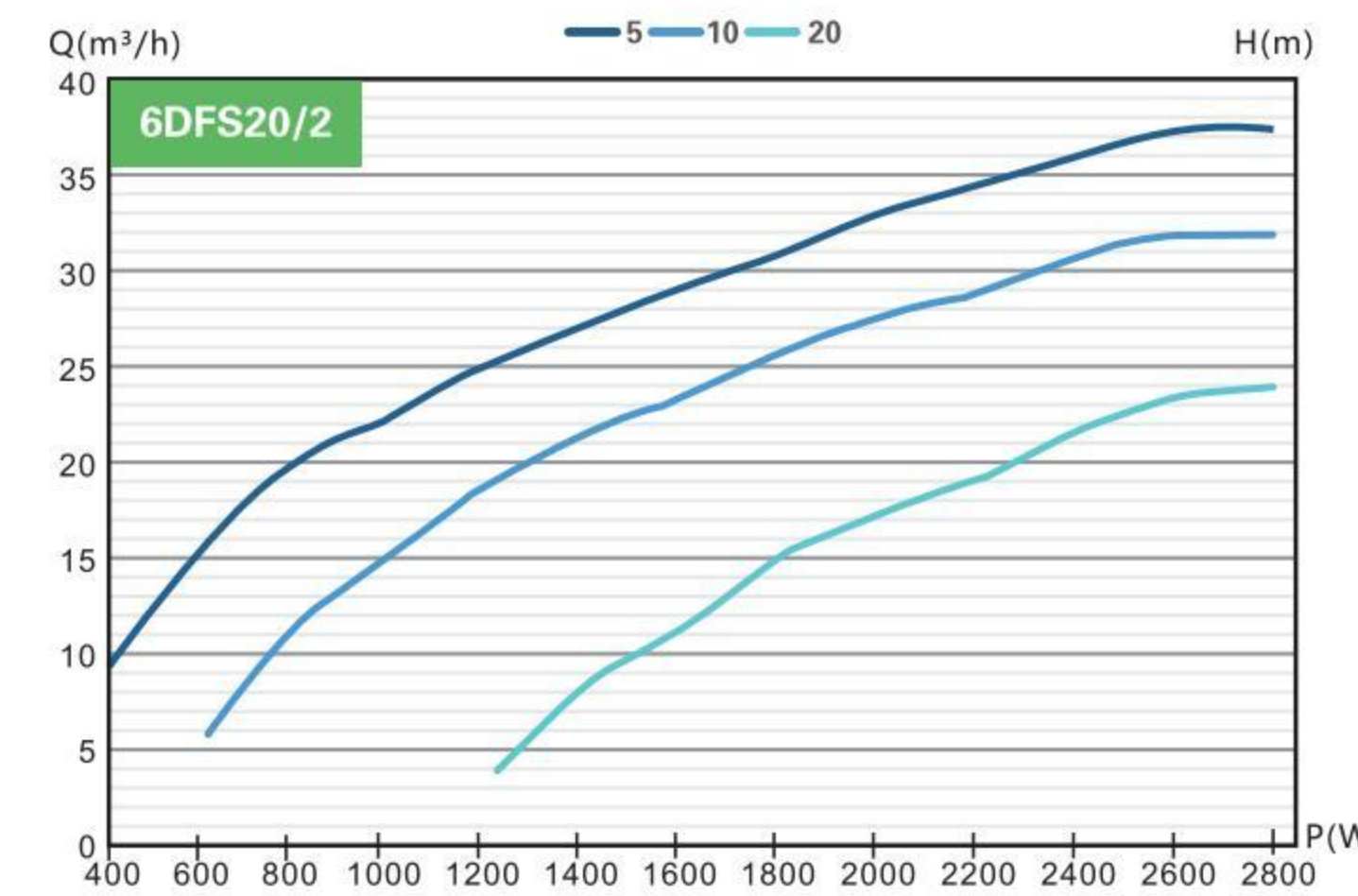
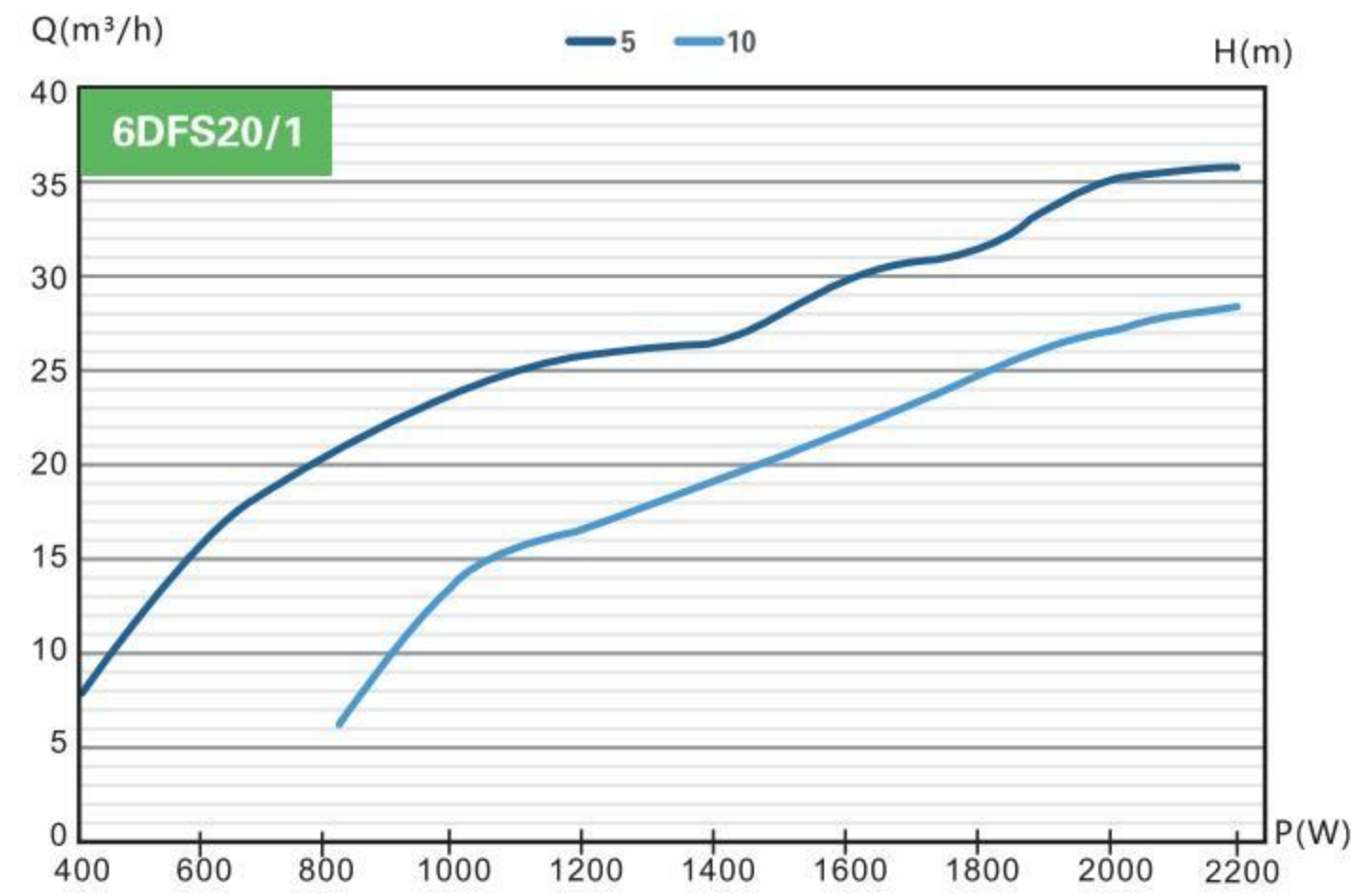
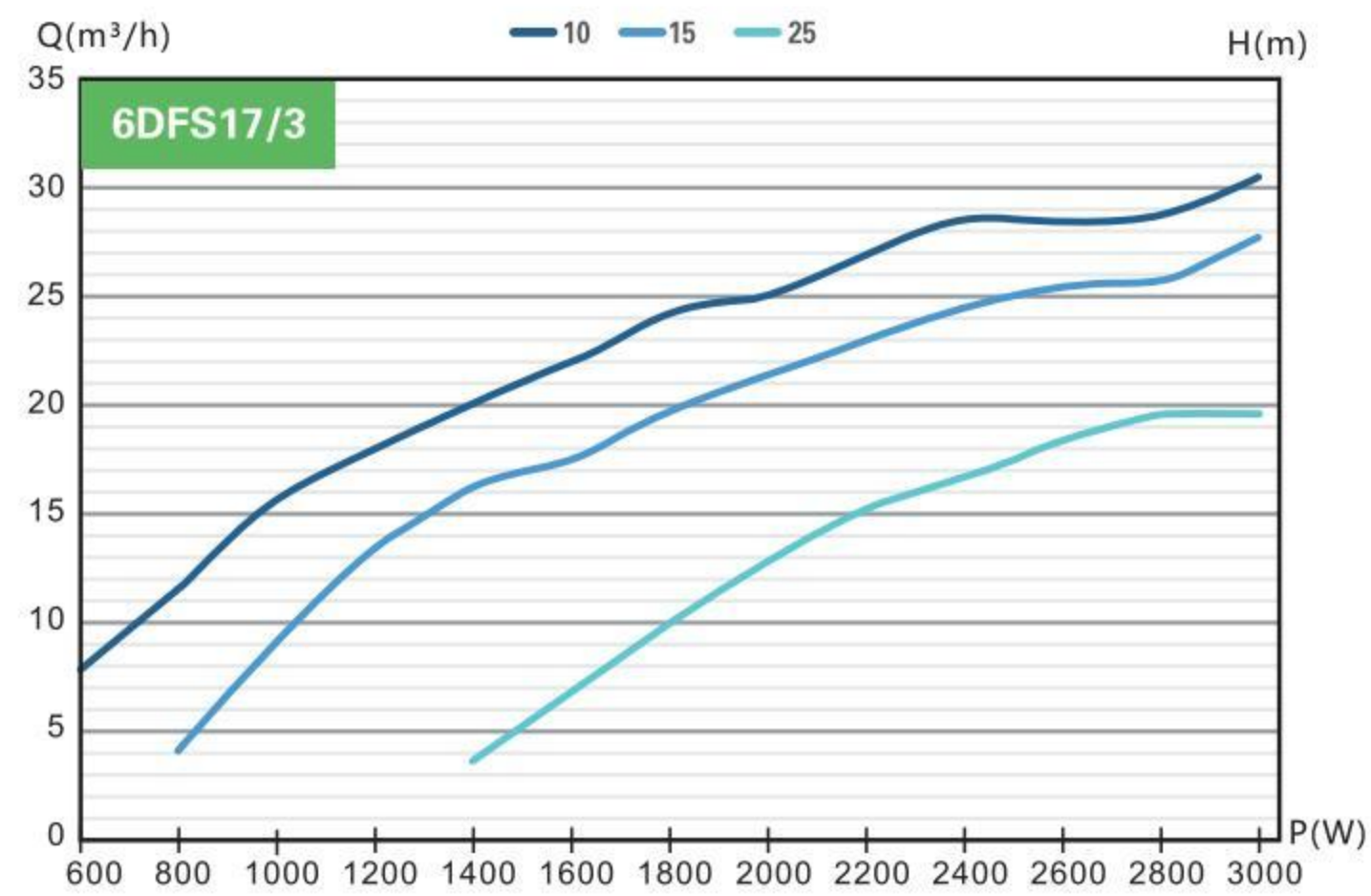
Model	Input Power (W)													
	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	
4/6DFS35.8-38-2600	Q(m <sup>3</sup> /h)													
H(m)	5	9.5	15.4	18.9	21.1	23.7	26	26.8	27.6	30.7	31.7	32.2	33.6	35.2
	10	5.5	11.5	15.1	18.1	20.6	22.3	23.6	25.8	27.4	28.4	30.2	31.6	
	15	2.7	7.8	11.7	14.5	17.9	18.7	20.9	22.6	24.7	25.9	27		

Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4/5DFS35.8-54-3000	60-380Vmp(60-440VOC)	90-240VAC	3000W	35.8m <sup>3</sup> /h	54m
4/5DFS38-41-3000	60-380Vmp(60-440VOC)	90-240VAC	3000W	38m <sup>3</sup> /h	41m

Outlet	Pump size	Cable	PV	Connection mode	Pump body
2.5"	5"	2m	330W*9	in series	5DFS25/3
2.5"	5"	2m	330W*9	in series	5DFS30/2

Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4/6DFS37.2-22-1800	60-380Vmp(60-440VOC)	90-240VAC	1800W	37.2m <sup>3</sup> /h	22m
4/6DFS35.8-38-2600	60-380Vmp(60-440VOC)	90-240VAC	2600W	35.8m <sup>3</sup> /h	38m

Outlet	Pump size	Cable	PV	Connection mode	Pump body
3"	6"	2m	330W*7	in series	6DFS17/1
2.5"	6"	2m	330W*9	in series	6DFS17/2



Model	Input Power (W)													
4/6DFS35-61-3000	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
	Q(m³/h)													
H(m)	10	8	11.7	15.7	18	20.1	22	24.2	25.1	26.9	28.4	28.3	28.7	30.4
	15	4.3	9.2	13.4	16.2	17.5	19.8	21.3	23	24.4	25.4	25.7	27.7	
	25			3.8	6.9	10.1	13.1	15.4	16.9	18.6	19.8	19.9		

Model	Input Power (W)										
4/6DFS37.5-23-2200	400	600	800	1000	1200	1400	1600	1800	2000	2200	
	Q(m³/h)										
H(m)	5	7.5	16.1	20.5	24	25.7	26.5	29.7	31.4	34.9	35.6
	10		5.8	14	16.6	19.1	21.7	24.5	26.9	28.2	

Model	Input Power (W)													
4/6DFS38.8-42-2600	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	
	Q(m³/h)													
H(m)	5	9.6	15.6	20.3	22.4	25.3	27.3	29.4	30.7	33.1	34.5	36.1	37.5	37.5
	10		5.5	11.7	15.4	18.9	21.6	23.5	25.8	27.6	28.9	30.8	31.8	31.9
	20				3.6	8.6	11.3	15.3	17.4	19	21.7	23.3	23.9	

Model	Input Power (W)														
4/6DFS34.2-58-3000	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
	Q(m³/h)														
H(m)	5	9.6	14.9	17.7	19.7	21.2	23.6	25.2	27.2	28.4	29.4	31.6	31.8	32.4	33.3
	10		5.2	11.1	14.7	17.7	19.8	21.1	22.6	24.5	26	27.4	28.4	30.2	30.5
	20				2.9	7.6	11.3	14	15.7	18.1	19.7	20.7	22.1	22.5	

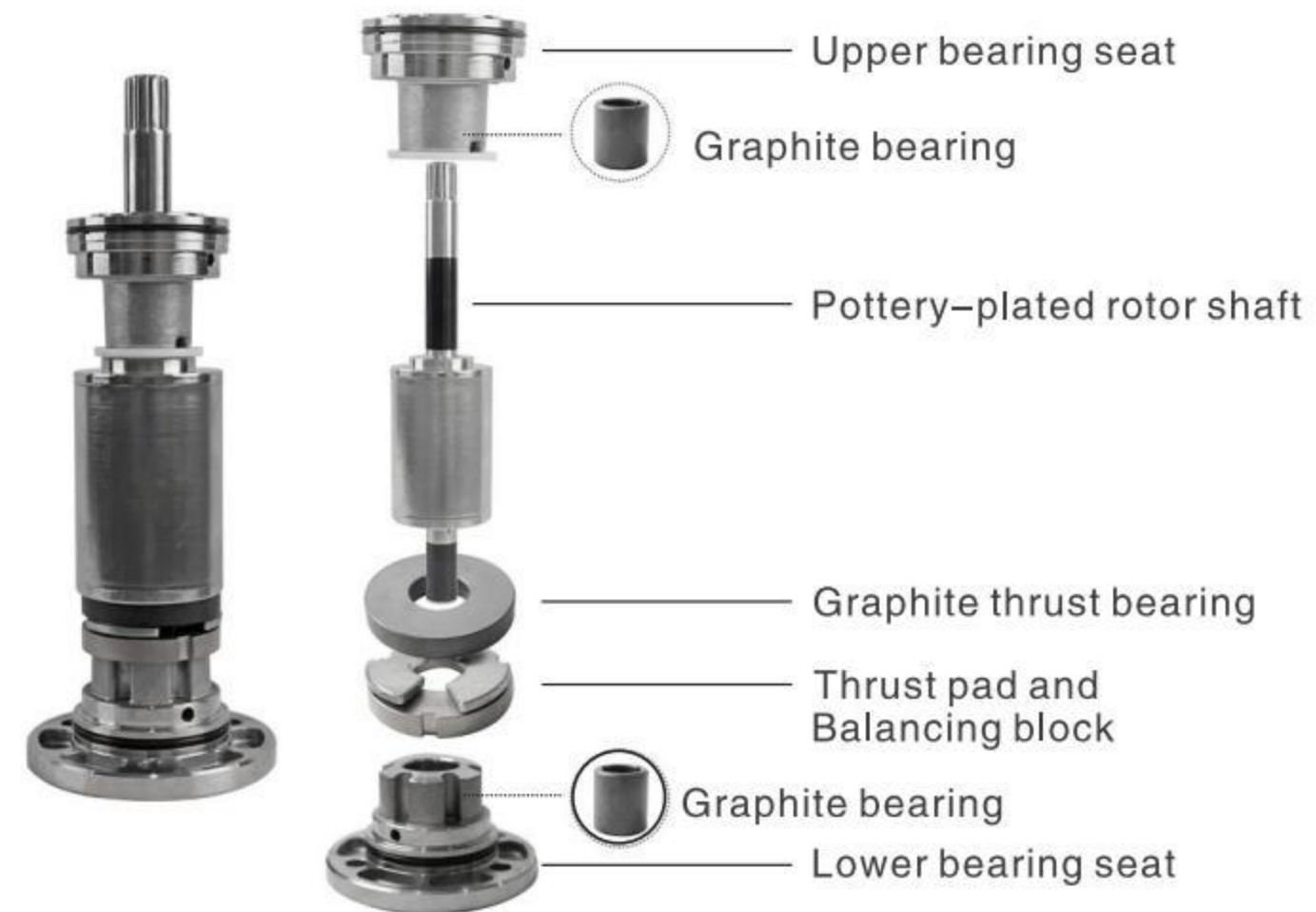
Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4/6DFS35-61-3000	60-380Vmp(60-440VOC)	90-240VAC	3000W	35m³/h	61m
4/6DFS37.5-23-2200	60-380Vmp(60-440VOC)	90-240VAC	2200W	37.5m³/h	23m

Outlet	Pump size	Cable	PV	Connection mode	Pump body
3"	6"	2m	330W*9	in series	6DFS17/3
3"	6"	2m	330W*8	in series	6DFS20/1

Model	DC Voltage range	AC Voltage range	Power	Max flow	Max head
4/6DFS38.8-42-2600	60-380Vmp(60-440VOC)	90-240VAC	2600W	38.8m³/h	42m
4/6DFS34.2-58-3000	60-380Vmp(60-440VOC)	90-240VAC	3000W	34.2m³/h	58m

Outlet	Pump size	Cable	PV	Connection mode	Pump body
3"	6"	2m	330W*9	in series	6DFS20/2
3"	6"	2m	330W*9	in series	6DFS20/3

# WATER FILLED MOTOR SOLAR PUMP WITH EXTERNAL CONTROLLER



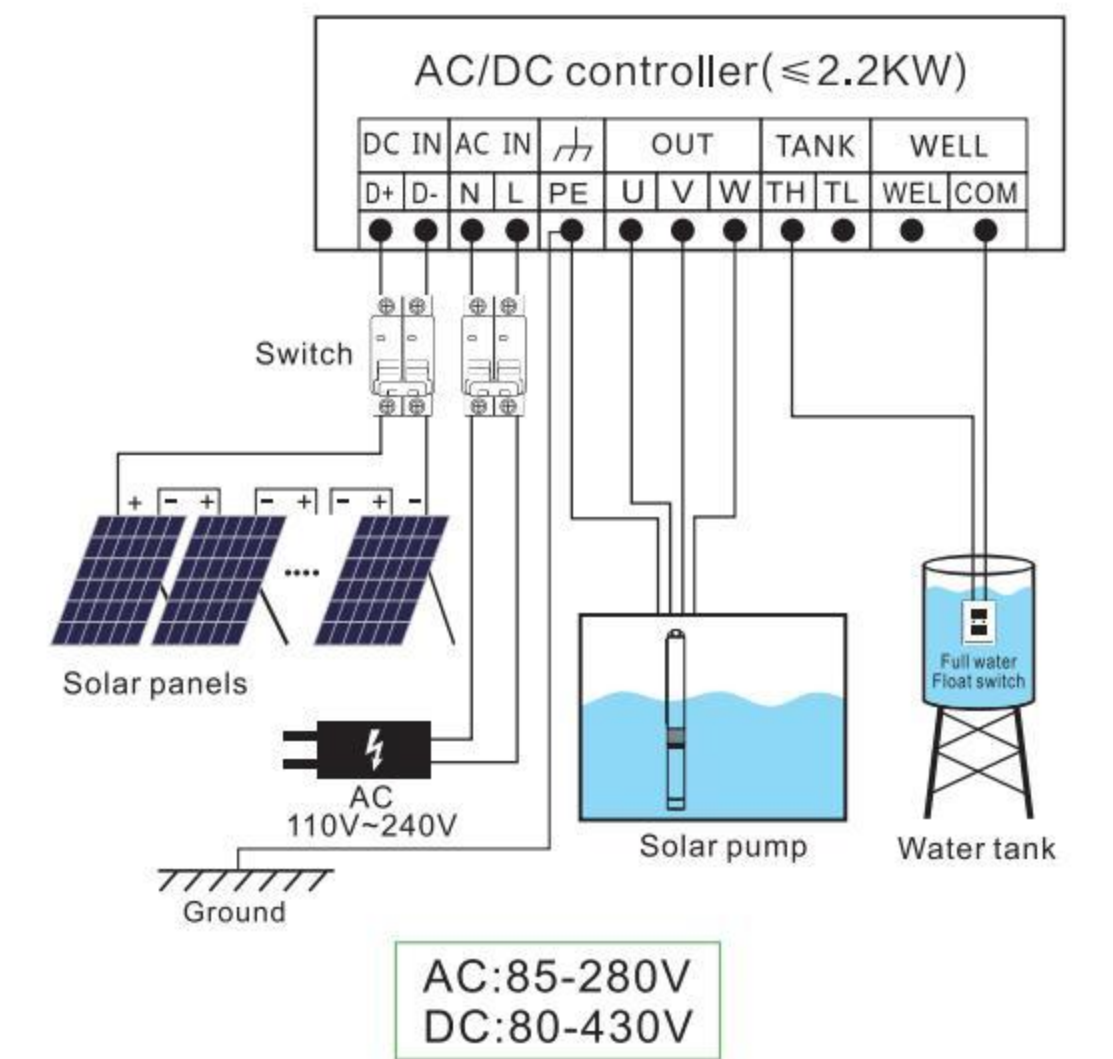
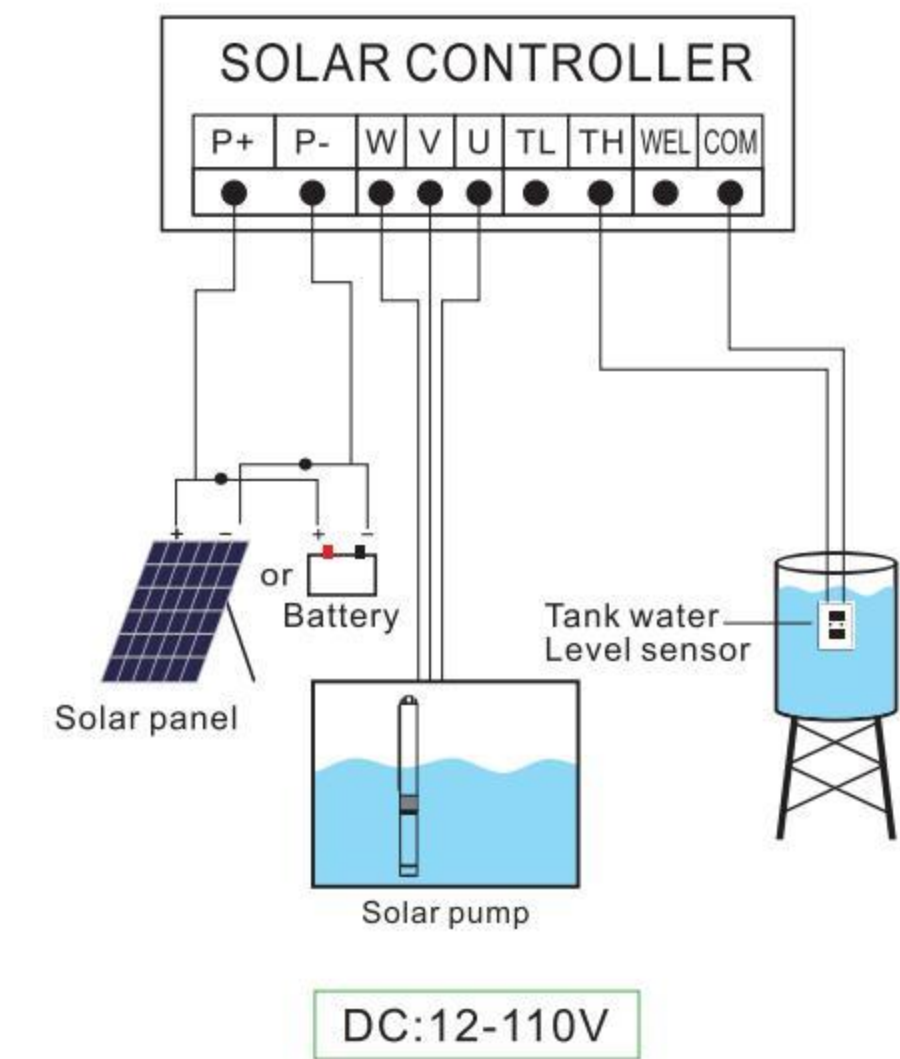
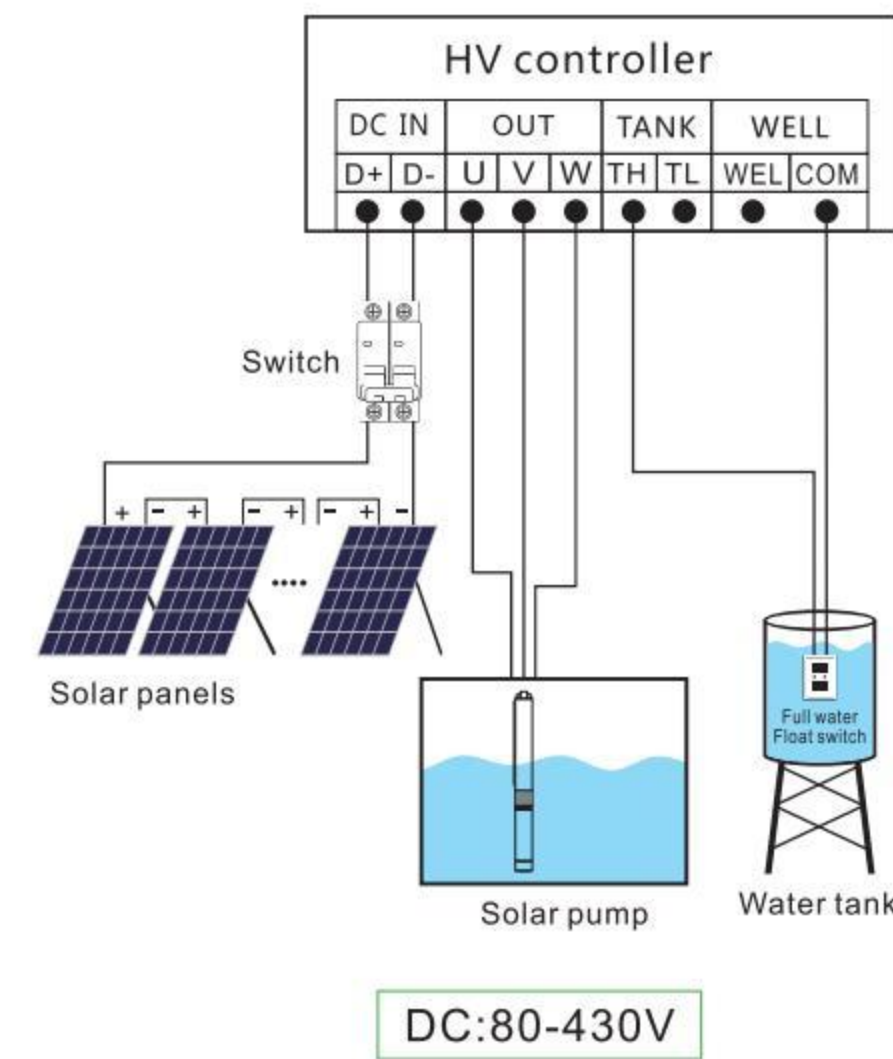
### FREE SPARE PARTS

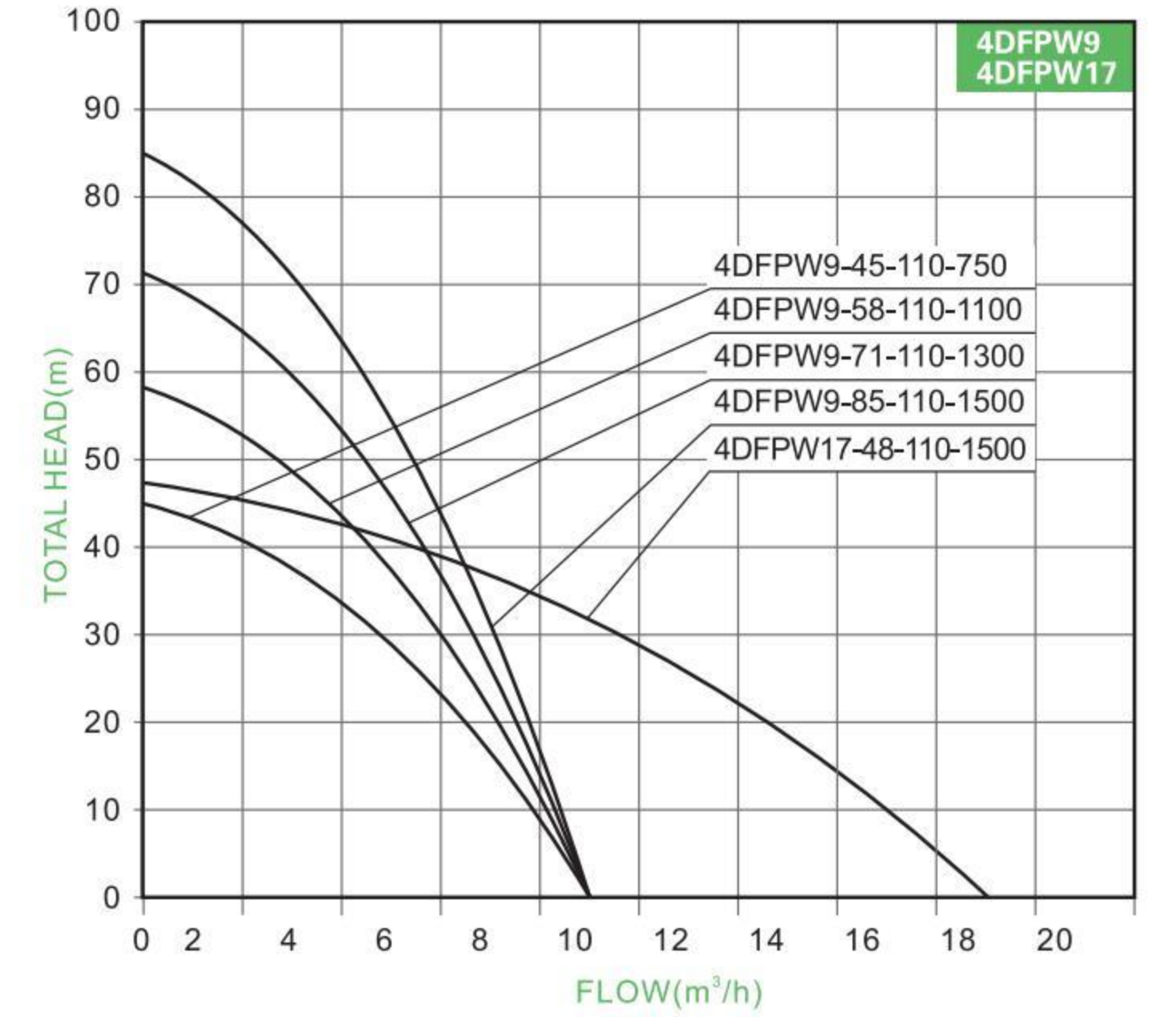
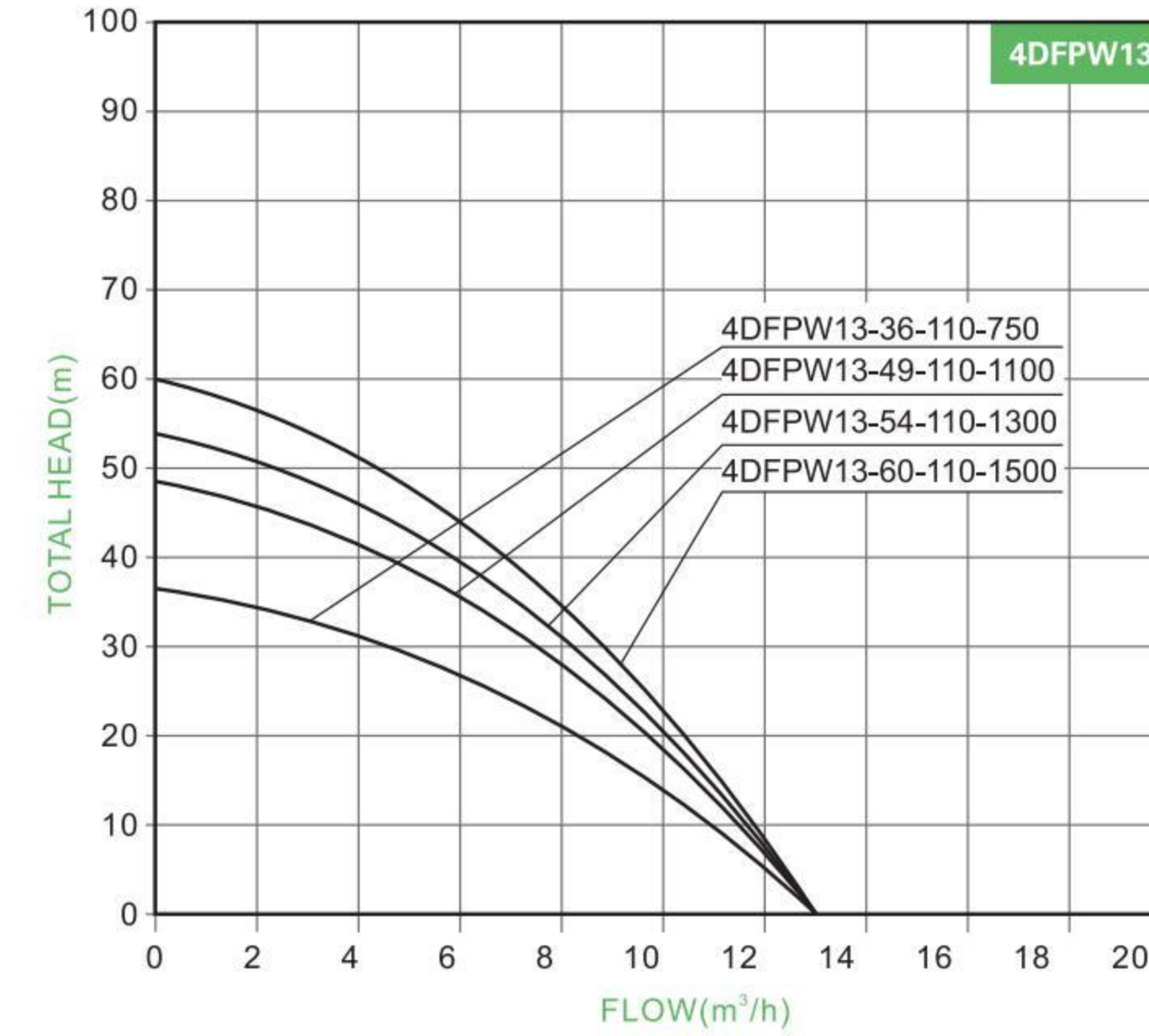
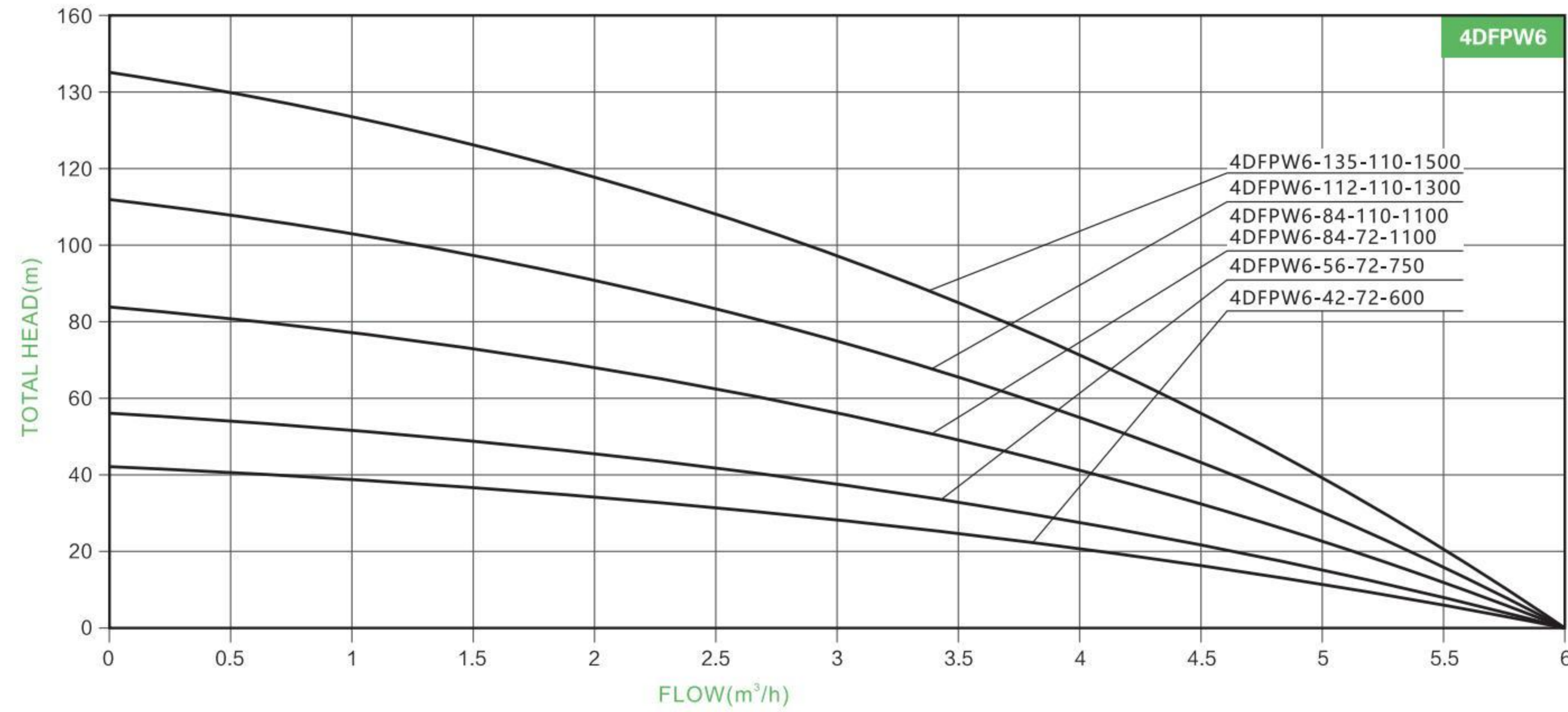


## 3 EXTERNAL CONTROLLERS FOR SELECTION



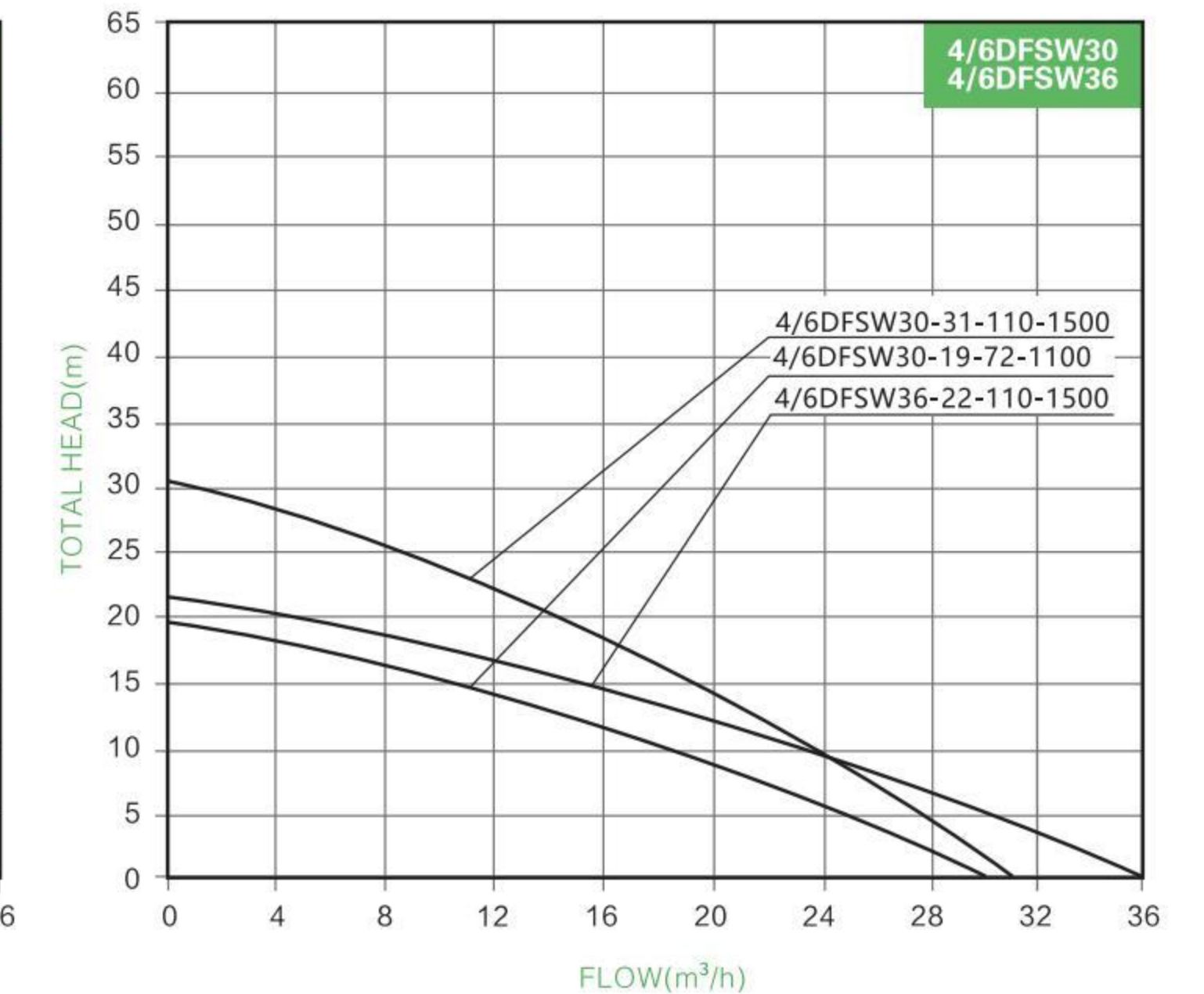
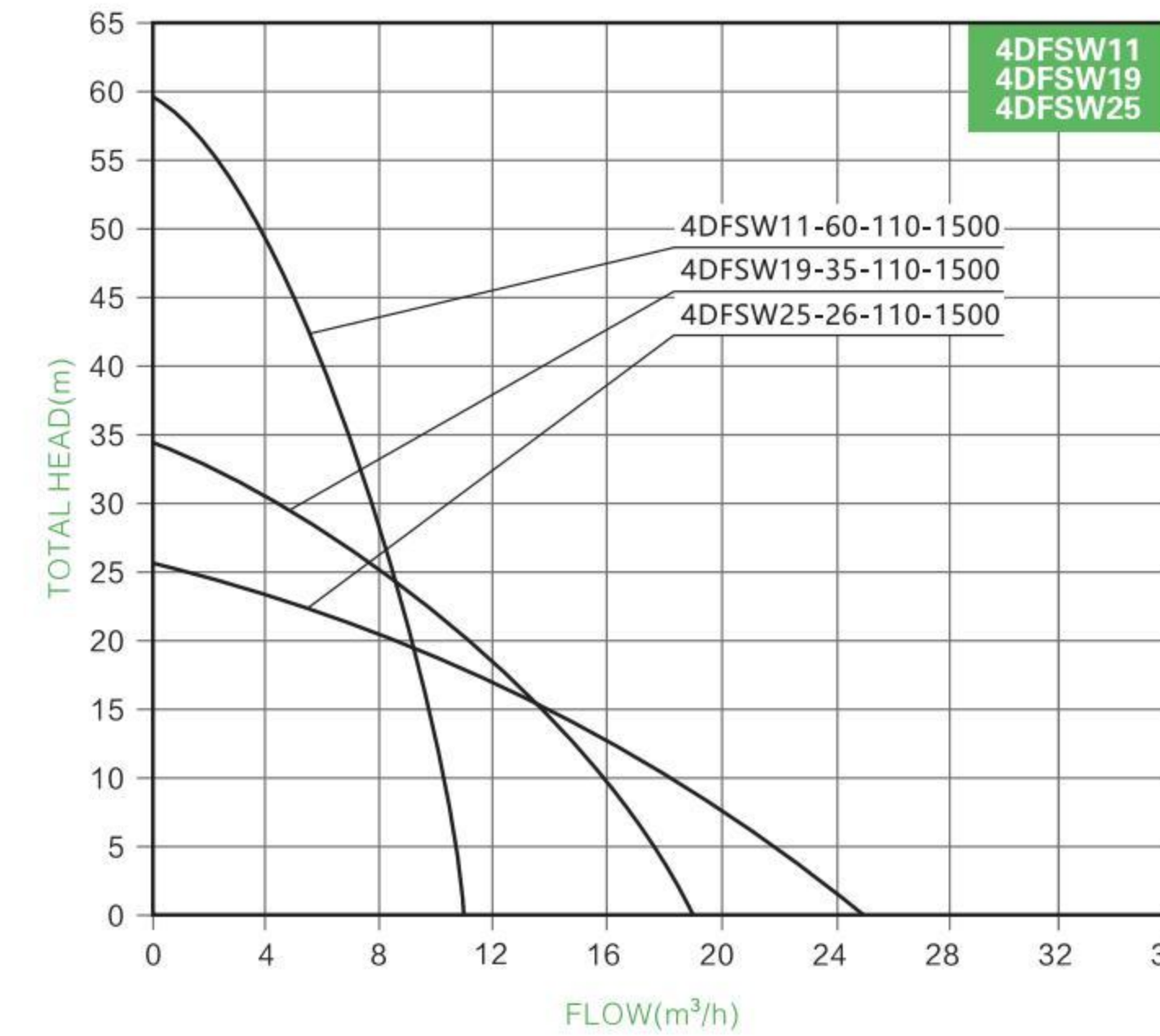
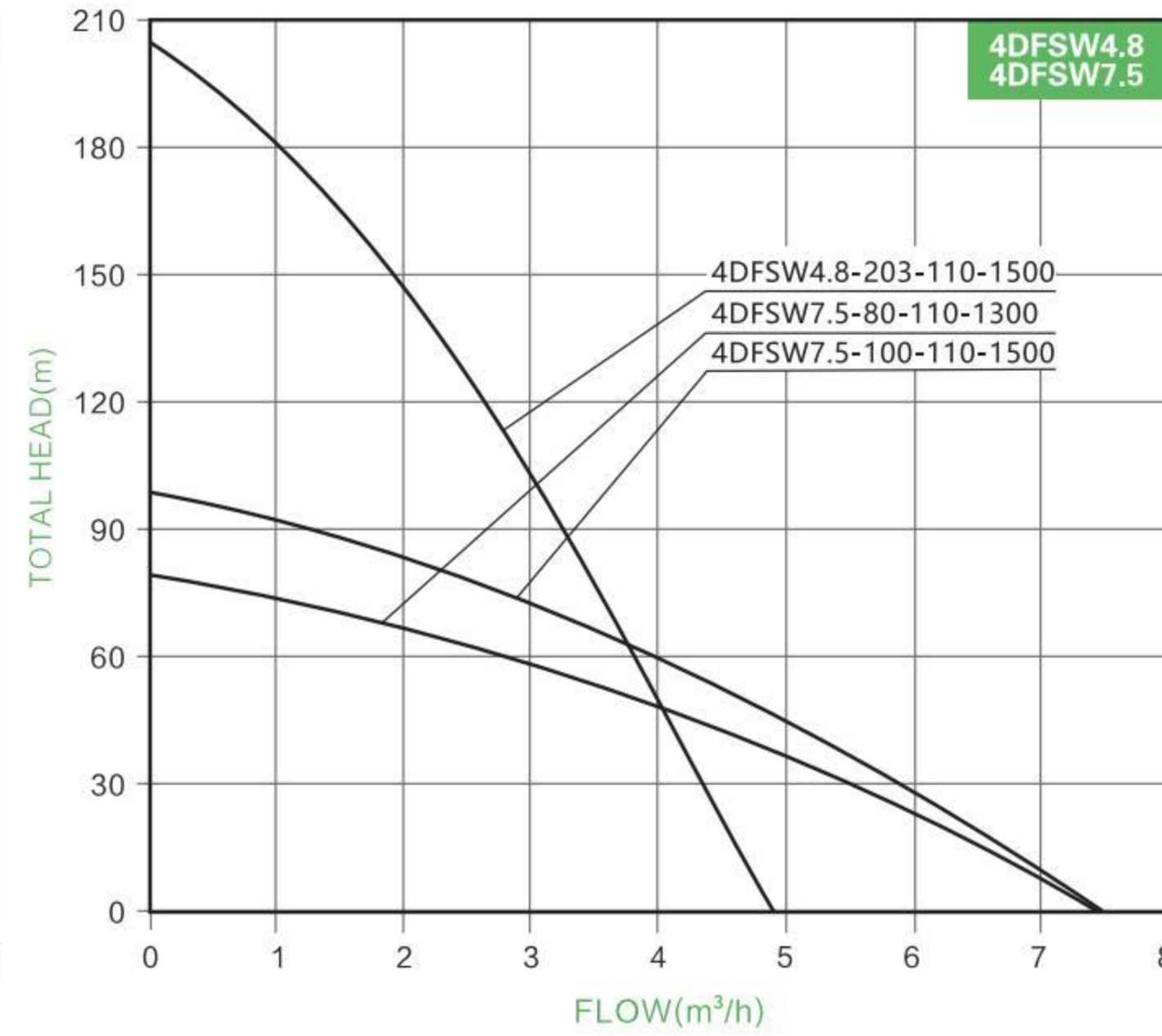
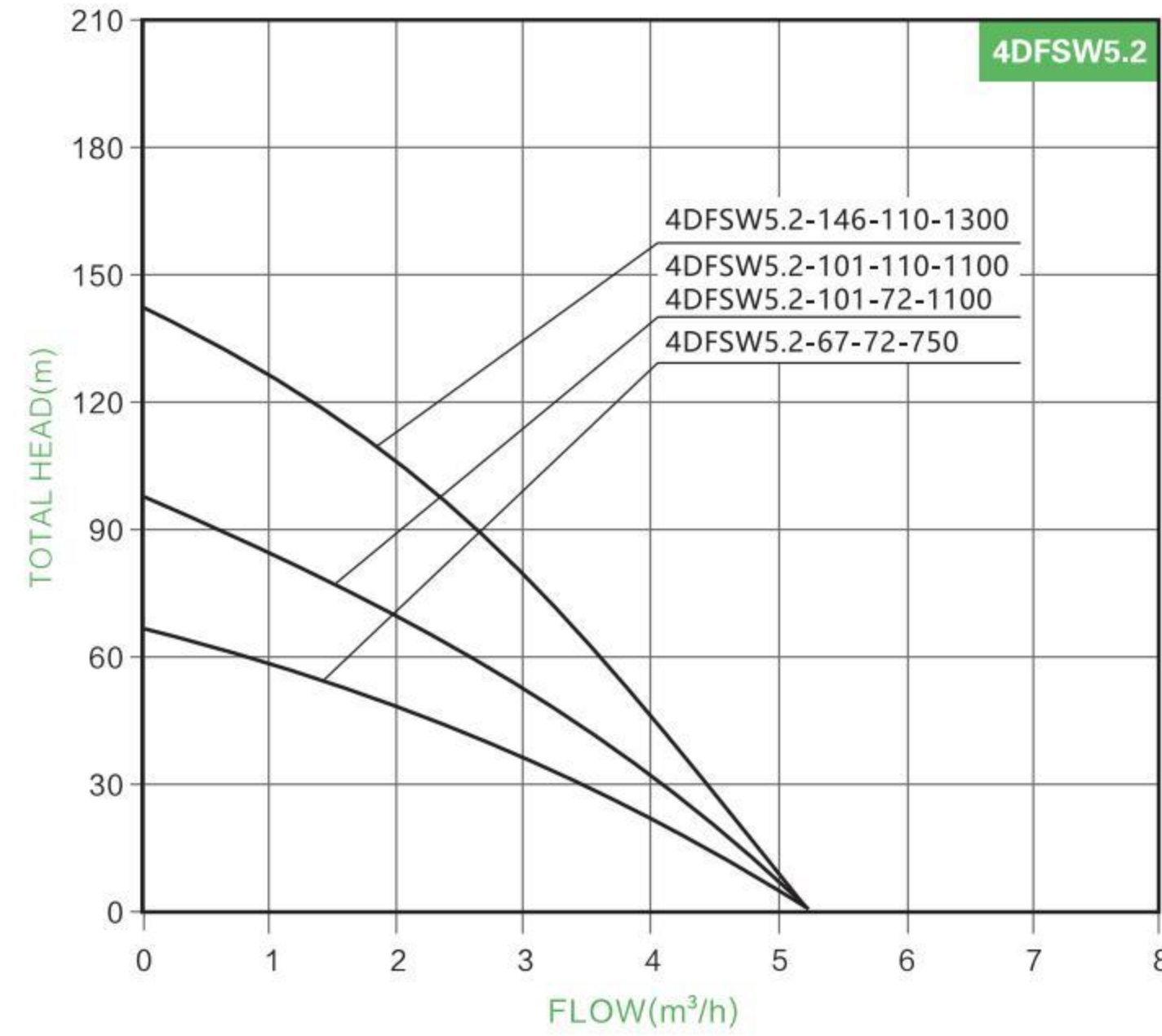
## WIRING DIAGRAM OF SOLAR WATER PUMP





ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DFPW6-42-72-600	72V	90V-120V	600w	6.0m <sup>3</sup> /h	42m	1.25"	2m	<160V	≥1.3*PUMP POWER
4DFPW6-56-72-750	72V	90V-120V	750w	6.0m <sup>3</sup> /h	56m	1.25"	2m	<160V	≥1.3*PUMP POWER
4DFPW6-84-72-1100	72V	90V-120V	1100w	6.0m <sup>3</sup> /h	84m	1.25"	2m	<160V	≥1.3*PUMP POWER
4DFPW6-84-110-1100	110V	110V-150V	1100w	6.0m <sup>3</sup> /h	84m	1.25"	2m	<210V	≥1.3*PUMP POWER
4DFPW6-112-110-1300	110V	110V-150V	1300w	6.0m <sup>3</sup> /h	112m	1.25"	2m	<210V	≥1.3*PUMP POWER
4DFPW6-135-110-1500	110V	110V-150V	1500W	6.0m <sup>3</sup> /h	135m	1.25"	2m	<210V	≥1.3*PUMP POWER

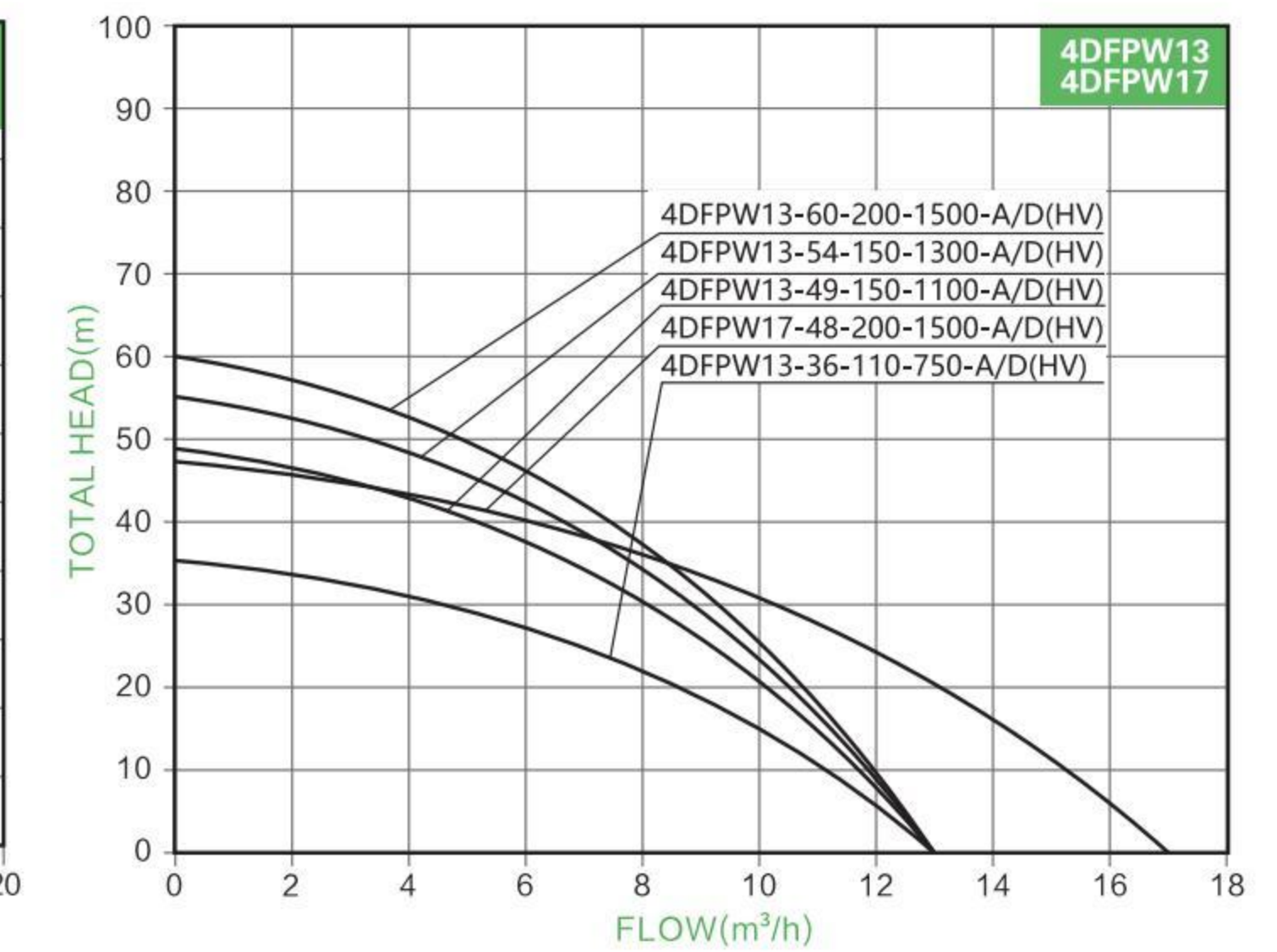
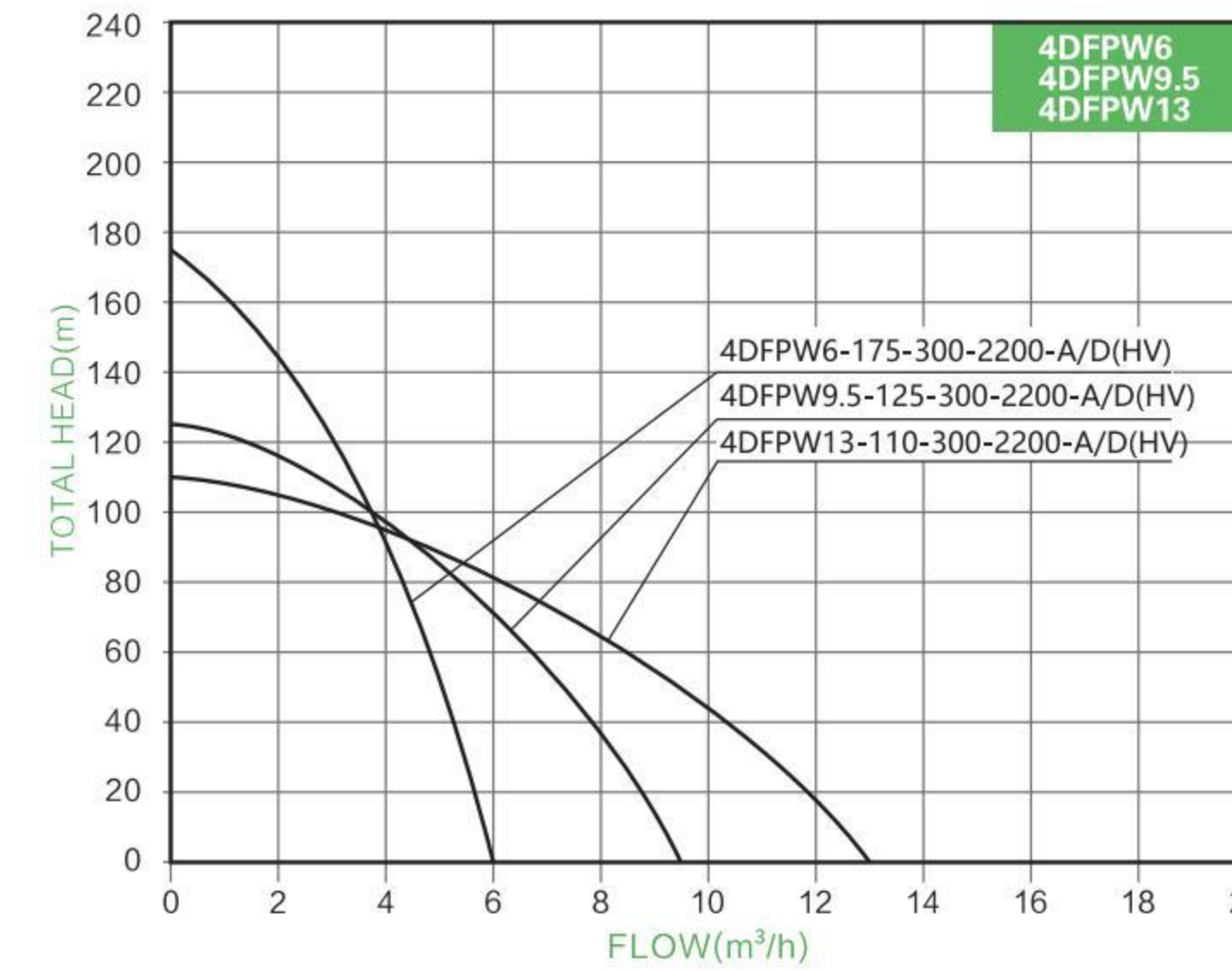
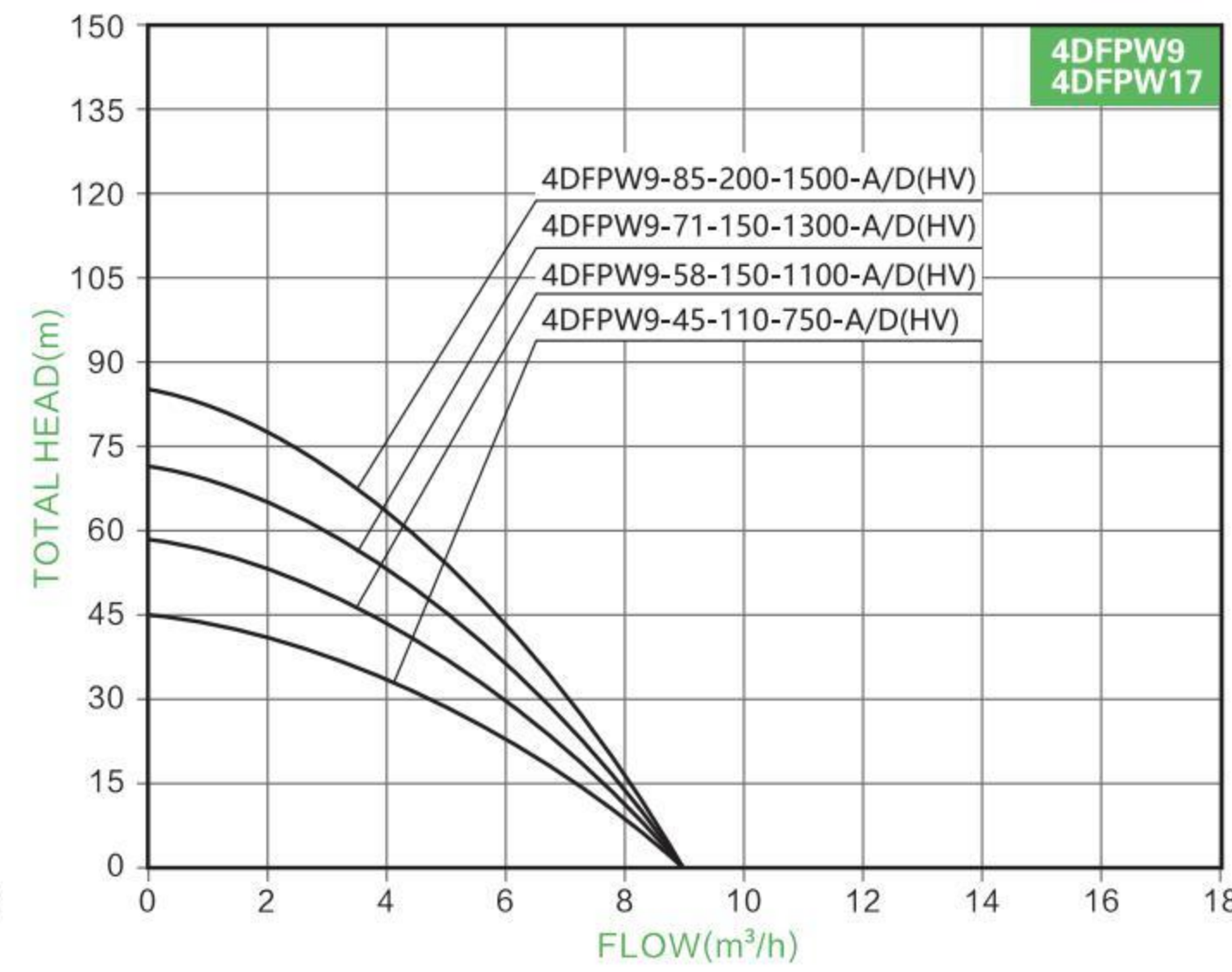
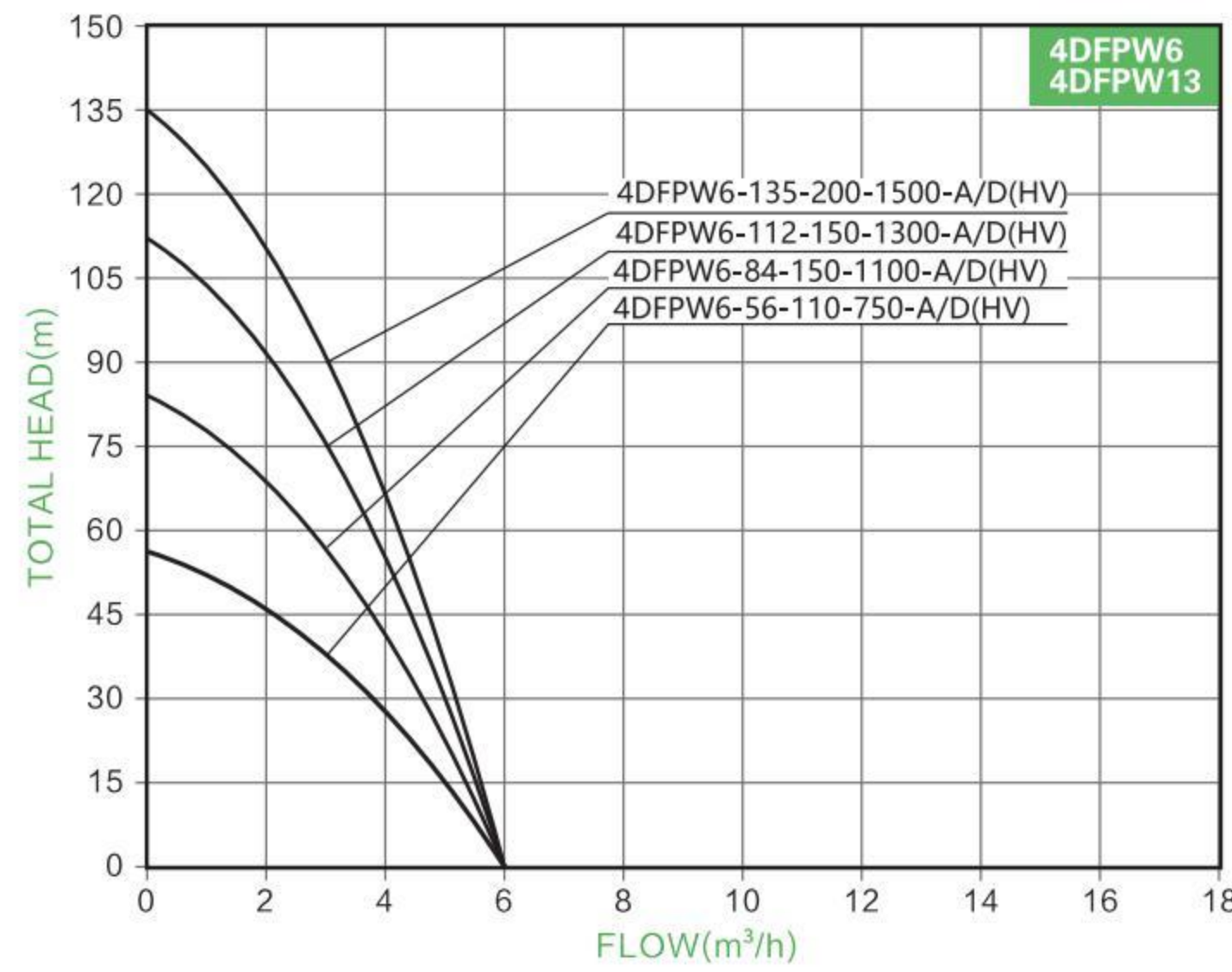
ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DFPW9-45-110-750	110V	110V-150V	750W	9.0m <sup>3</sup> /h	45m	2"	2m	<210V	≥1.3*PUMP POWER
4DFPW9-58-110-1100	110V	110V-150V	1100W	9.0m <sup>3</sup> /h	58m	2"	2m	<210V	≥1.3*PUMP POWER
4DFPW9-71-110-1300	110V	110V-150V	1300W	9.0m <sup>3</sup> /h	71m	2"	2m	<210V	≥1.3*PUMP POWER
4DFPW9-85-110-1500	110V	110V-150V	1500W	9.0m <sup>3</sup> /h	85m	2"	2m	<210V	≥1.3*PUMP POWER
4DFPW13-36-110-750	110V	110V-150V	750W	13.0m <sup>3</sup> /h	36m	2"	2m	<210V	≥1.3*PUMP POWER
4DFPW13-49-110-1100	110V	110V-150V	1100W	13.0m <sup>3</sup> /h	49m	2"	2m	<210V	≥1.3*PUMP POWER
4DFPW13-54-110-1300	110V	110V-150V	1300W	13.0m <sup>3</sup> /h	54m	2"	2m	<210V	≥1.3*PUMP POWER
4DFPW13-60-110-1500	110V	110V-150V	1500W	13.0m <sup>3</sup> /h	60m	2"	2m	<210V	≥1.3*PUMP POWER
4DFPW17-48-110-1500	110V	110V-150V	1500W	17.0m <sup>3</sup> /h	48m	2"	2m	<210V	≥1.3*PUMP POWER



ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DFSW5.2-67-72-750	72V	90v-120V	750W	5.2m³/h	67m	1.25"	2m	<160V	≥1.3*PUMP POWER
4DFSW5.2-101-72-1100	72V	90V-120V	1100w	5.2m³/h	101m	1.25"	2m	<160V	≥1.3*PUMP POWER
4DFSW5.2-101-110-1100	110V	110V-150V	1100w	5.2m³/h	101m	1.25"	2m	<210V	≥1.3*PUMP POWER
4DFSW5.2-146-110-1300	110V	110V-150V	1300w	5.2m³/h	146m	1.25"	2m	<210V	≥1.3*PUMP POWER
4DFSW4.8-203-110-1500	110V	110V-150V	1500w	4.8m³/h	203m	1.25"	2m	<210V	≥1.3*PUMP POWER
4DFSW7.5-80-110-1300	110V	110V-150V	1300w	7.5m³/h	80m	1.25"	2m	<210V	≥1.3*PUMP POWER
4DFSW7.5-100-110-1500	110V	110V-150V	1500w	7.5m³/h	100m	1.25"	2m	<210V	≥1.3*PUMP POWER

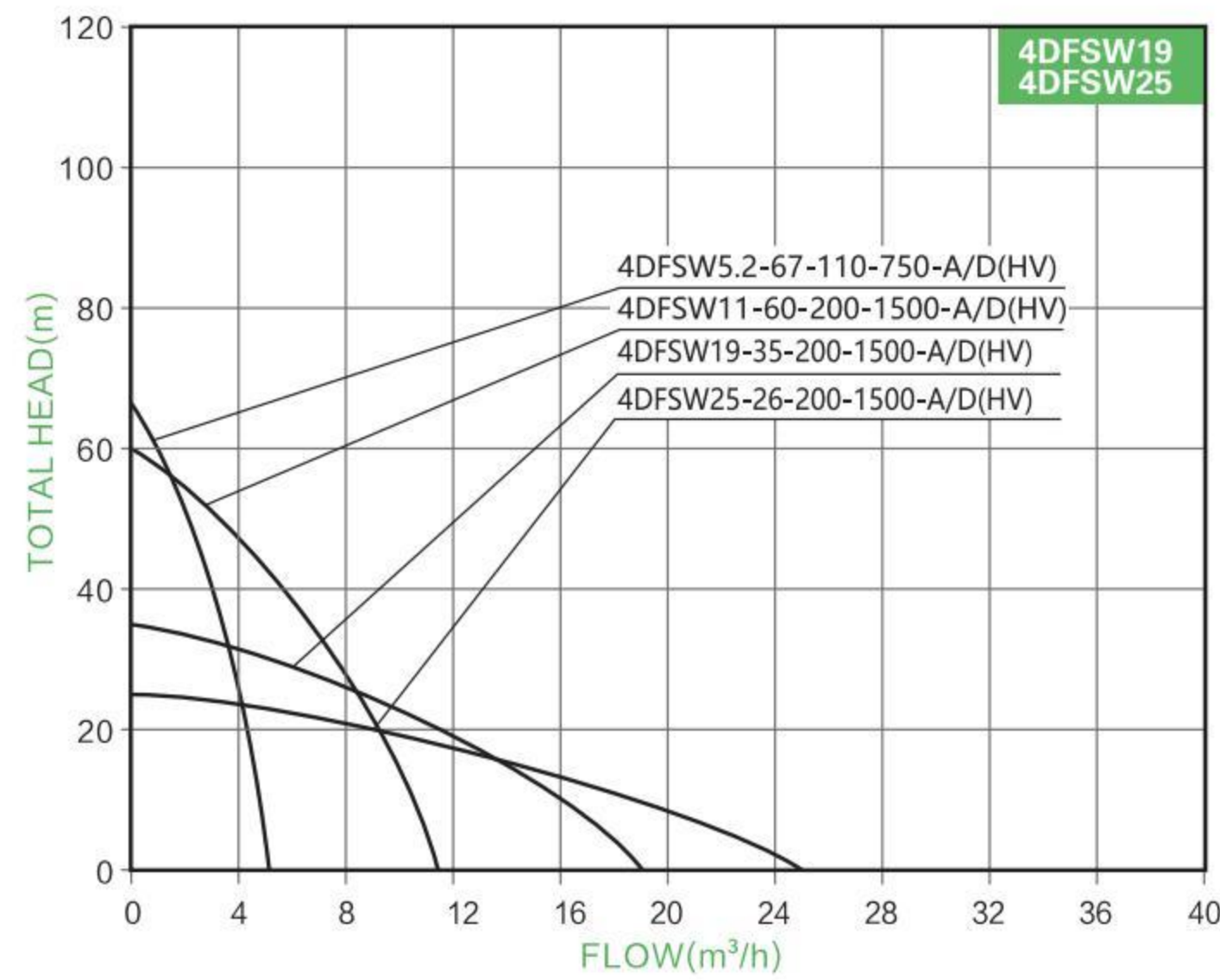
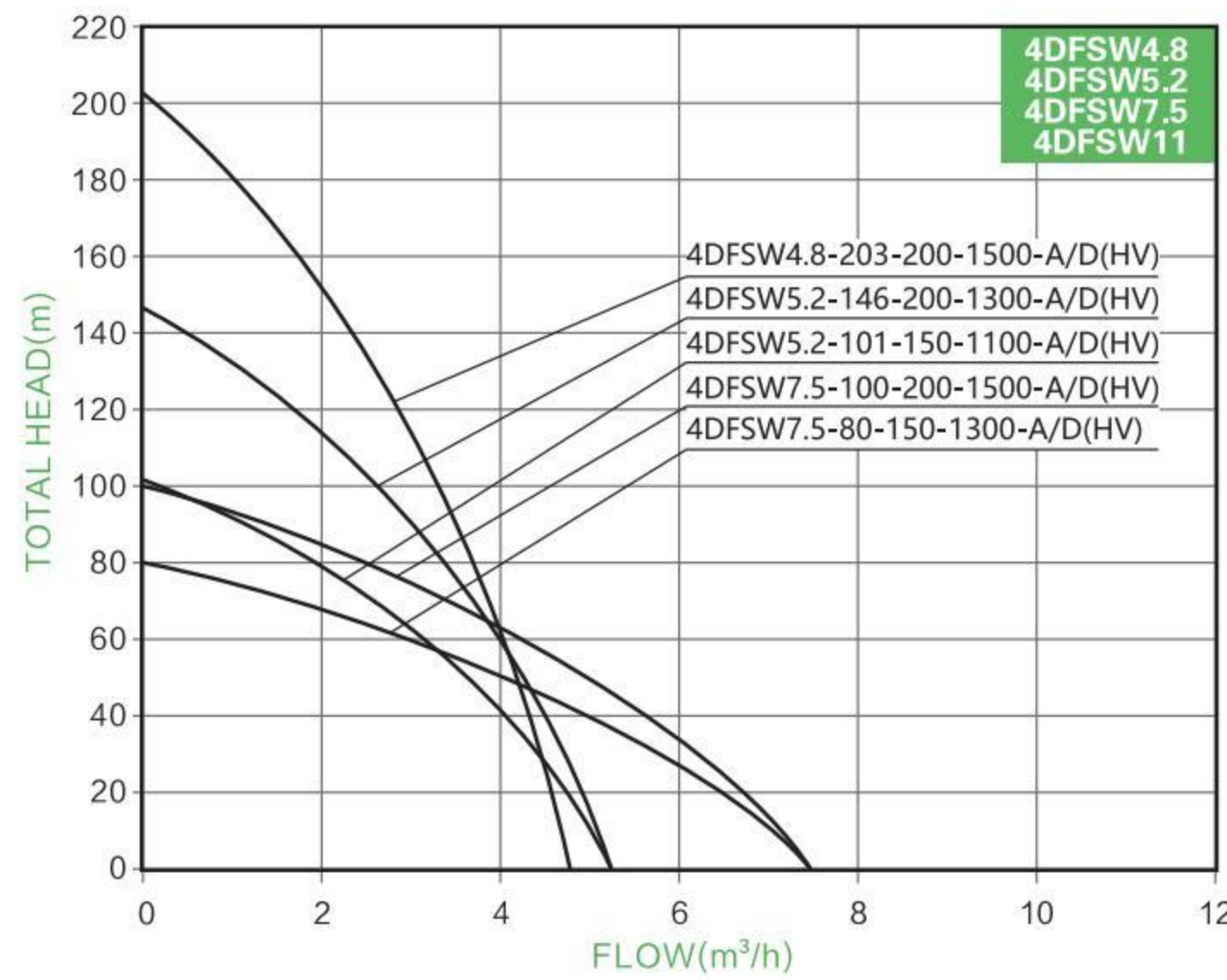
ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DFSW11-60-110-1500	110V	110V-150V	1500W	11m³/h	60m	2"	2m	<210V	≥1.3*PUMP POWER
4DFSW19-35-110-1500	110V	110V-150V	1500W	19m³/h	35m	2"	2m	<210V	≥1.3*PUMP POWER
4DFSW25-26-110-1500	110V	110V-150V	1500W	25m³/h	26m	2"	2m	<210V	≥1.3*PUMP POWER
4/6DFSW30-19-72-1100	72V	90V-120V	1100W	30m³/h	19m	3"	2m	<210V	≥1.3*PUMP POWER
4/6DFSW36-22-110-1500	110V	110V-150V	1500W	36m³/h	22m	3"	2m	<210V	≥1.3*PUMP POWER
4/6DFSW30-31-110-1500	110V	110V-150V	1500W	30m³/h	31m	3"	2m	<210V	≥1.3*PUMP POWER



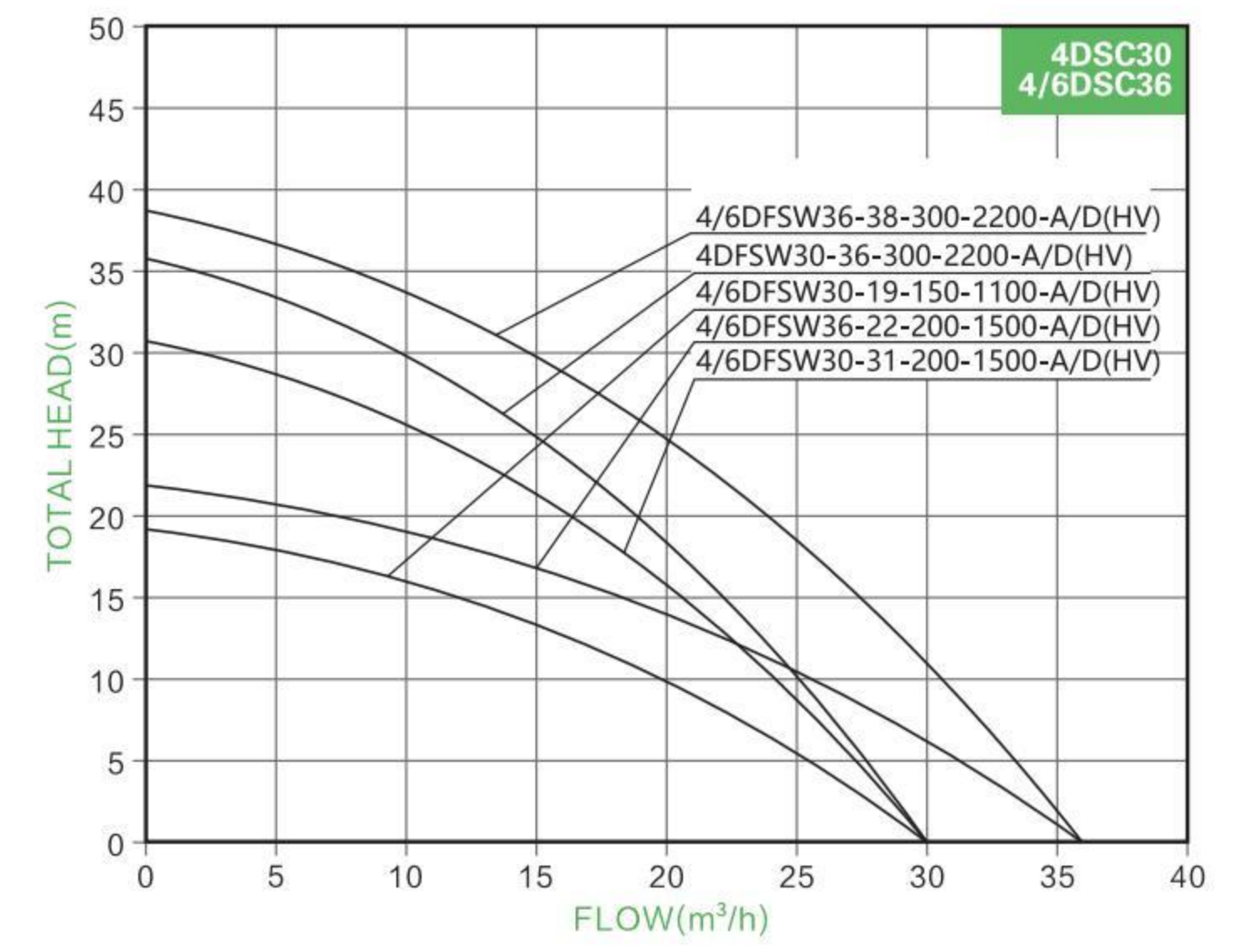
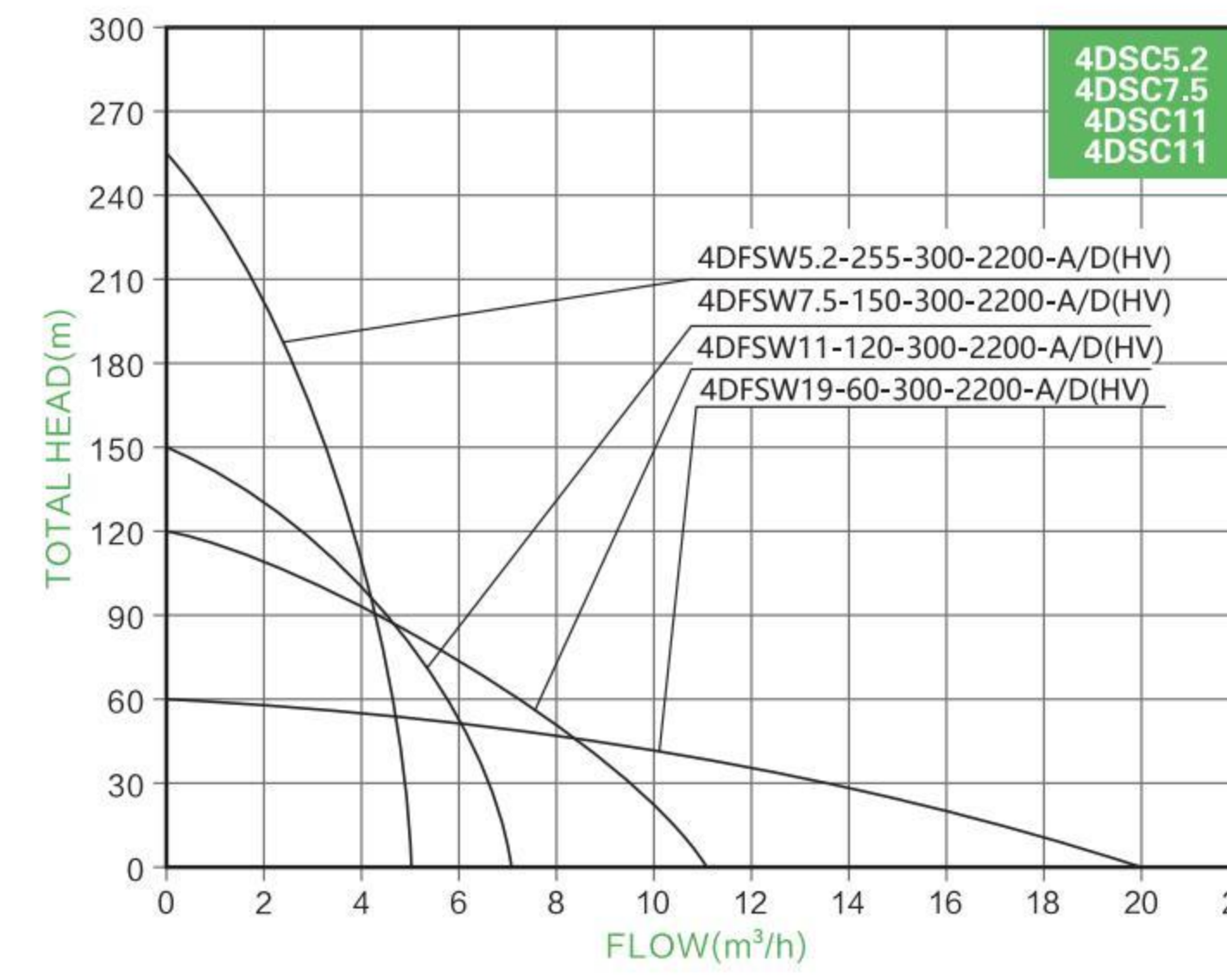


ITEM	(AC) Voltage	(DC) Voltage	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DFPW6-56-110-750-A/D	85V-280V	80V-430V	750W	6m³/h	56m	1.25"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW6-56-110-750-HV	/	80V-430V	750W	6m³/h	56m	1.25"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW6-84-150-1100-A/D	85V-280V	80V-430V	1100W	6m³/h	84m	1.25"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW6-84-150-1100-HV	/	80V-430V	1100W	6m³/h	84m	1.25"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW6-112-150-1300-A/D	85V-280V	80V-430V	1300W	6m³/h	112m	1.25"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW6-112-150-1300-HV	/	80V-430V	1300W	6m³/h	112m	1.25"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW6-135-200-1500-A/D	85V-280V	80V-430V	1500W	6m³/h	135m	1.25"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW6-135-200-1500-HV	/	80V-430V	1500W	6m³/h	135m	1.25"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW9-45-110-750-A/D	85V-280V	80V-430V	750W	9m³/h	45m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW9-45-110-750-HV	/	80V-430V	750W	9m³/h	45m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW9-58-150-1100-A/D	85V-280V	80V-430V	1100W	9m³/h	58m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW9-58-150-1100-HV	/	80V-430V	1100W	9m³/h	58m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW9-71-150-1300-A/D	85V-280V	80V-430V	1300W	9m³/h	71m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW9-71-150-1300-HV	/	80V-430V	1300W	9m³/h	71m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW9-85-200-1500-A/D	85V-280V	80V-430V	1500W	9m³/h	85m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW9-85-200-1500-HV	/	80V-430V	1500W	9m³/h	85m	2"	2m	< 430V	≥ 1.3*PUMP POWER

ITEM	(AC) Voltage	(DC) Voltage	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DFPW13-36-110-750-A/D	85V-280V	80V-430V	750W	13m³/h	36m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW13-36-110-750-HV	/	80V-430V	750W	13m³/h	36m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW13-49-150-1100-A/D	85V-280V	80V-430V	1100W	13m³/h	49m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW13-49-150-1100-HV	/	80V-430V	1100W	13m³/h	49m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW13-54-150-1300-A/D	85V-280V	80V-430V	1300W	13m³/h	54m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW13-54-150-1300-HV	/	80V-430V	1300W	13m³/h	54m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW13-60-200-1500-A/D	85V-280V	80V-430V	1500W	13m³/h	60m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW13-60-200-1500-HV	/	80V-430V	1500W	13m³/h	60m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW17-48-200-1500-A/D	85V-280V	80V-430V	1500W	17m³/h	48m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW17-48-200-1500-HV	/	80V-430V	1500W	17m³/h	48m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW6-175-300-2200-A/D	85V-280V	80V-430V	2200W	6m³/h	175m	1.25"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW6-175-300-2200-HV	/	80V-430V	2200W	6m³/h	175m	1.25"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW9.5-125-300-2200-A/D	85V-280V	80V-430V	2200W	9.5m³/h	125m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW9.5-125-300-2200-HV	/	80V-430V	2200W	9.5m³/h	125m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW13-110-300-2200-A/D	85V-280V	80V-430V	2200W	13m³/h	110m	2"	2m	< 430V	≥ 1.3*PUMP POWER
4DFPW13-110-300-2200-HV	/	80V-430V	2200W	13m³/h	110m	2"	2m	< 430V	≥ 1.3*PUMP POWER



ITEM	(AC) Voltage	(DC) Voltage	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DFSW5.2-67-110-750-A/D	85V-280V	80V-430V	750W	5.2m³/h	67m	1.25"	2m	<430V	≥1.3*PUMP POWER
4DFSW5.2-67-110-750-HV	/	80V-430V	750W	5.2m³/h	67m	1.25"	2m	<430V	≥1.3*PUMP POWER
4DFSW4.8-203-200-1500-A/D	85V-280V	80V-430V	1500W	4.8m³/h	203m	1.25"	2m	<430V	≥1.3*PUMP POWER
4DFSW4.8-203-200-1500-HV	/	80V-430V	1500W	4.8m³/h	203m	1.25"	2m	<430V	≥1.3*PUMP POWER
4DFSW5.2-101-150-1100-A/D	85V-280V	80V-430V	1100W	5.2m³/h	101m	1.25"	2m	<430V	≥1.3*PUMP POWER
4DFSW5.2-101-150-1100-HV	/	80V-430V	1100W	5.2m³/h	101m	1.25"	2m	<430V	≥1.3*PUMP POWER
4DFSW5.2-146-200-1300-A/D	85V-280V	80V-430V	1300W	5.2m³/h	146m	1.25"	2m	<430V	≥1.3*PUMP POWER
4DFSW5.2-146-200-1300-HV	/	80V-430V	1300W	5.2m³/h	146m	1.25"	2m	<430V	≥1.3*PUMP POWER
4DFSW7.5-80-150-1300-A/D	85V-280V	80V-430V	1300W	7.5m³/h	80m	1.25"	2m	<430V	≥1.3*PUMP POWER
4DFSW7.5-80-150-1300-HV	/	80V-430V	1300W	7.5m³/h	80m	1.25"	2m	<430V	≥1.3*PUMP POWER
4DFSW7.5-100-200-1500-A/D	85V-280V	80V-430V	1500W	7.5m³/h	100m	1.25"	2m	<430V	≥1.3*PUMP POWER
4DFSW7.5-100-200-1500-HV	/	80V-430V	1500W	7.5m³/h	100m	1.25"	2m	<430V	≥1.3*PUMP POWER
4DFSW11-60-200-1500-A/D	85V-280V	80V-430V	1500W	11m³/h	60m	2"	2m	<430V	≥1.3*PUMP POWER
4DFSW11-60-200-1500-HV	/	80V-430V	1500W	11m³/h	60m	2"	2m	<430V	≥1.3*PUMP POWER
4DFSW19-35-200-1500-A/D	85V-280V	80V-430V	1500W	19m³/h	35m	2"	2m	<430V	≥1.3*PUMP POWER
4DFSW19-35-200-1500-HV	/	80V-430V	1500W	19m³/h	35m	2"	2m	<430V	≥1.3*PUMP POWER
4DFSW25-26-200-1500-A/D	85V-280V	80V-430V	1500W	25m³/h	26m	2"	2m	<430V	≥1.3*PUMP POWER
4DFSW25-26-200-1500-HV	/	80V-430V	1500W	25m³/h	26m	2"	2m	<430V	≥1.3*PUMP POWER



ITEM	(AC) Voltage	(DC) Voltage	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4/6DFSW30-19-150-1100-A/D	85V-280V	80V-430V	1100W	30m³/h	19m	3"	2m	<430V	≥1.3*PUMP POWER
4/6DFSW30-19-150-1100-HV	/	80V-430V	1100W	30m³/h	19m	3"	2m	<430V	≥1.3*PUMP POWER
4/6DFSW36-22-200-1500-A/D	85V-280V	80V-430V	1500W	36m³/h	22m	3"	2m	<430V	≥1.3*PUMP POWER
4/6DFSW36-22-200-1500-HV	/	80V-430V	1500W	36m³/h	22m	3"	2m	<430V	≥1.3*PUMP POWER
4/6DFSW30-31-200-1500-A/D	85V-280V	80V-430V	1500W	30m³/h	31m	3"	2m	<430V	≥1.3*PUMP POWER
4/6DFSW30-31-200-1500-HV	/	80V-430V	1500W	30m³/h	31m	3"	2m	<430V	≥1.3*PUMP POWER
4DFSW5.2-255-300-2200-A/D	85V-280V	80V-430V	2200W	5.2m³/h	255m	1.25"	2m	<430V	≥1.3*PUMP POWER
4DFSW5.2-255-300-2200-HV	/	80V-430V	2200W	5.2m³/h	255m	1.25"	2m	<430V	≥1.3*PUMP POWER
4DFSW7.5-150-300-2200-A/D	85V-280V	80V-430V	2200W	7.5m³/h	150m	1.25"	2m	<430V	≥1.3*PUMP POWER
4DFSW7.5-150-300-2200-HV	/	80V-430V	2200W	7.5m³/h	150m	1.25"	2m	<430V	≥1.3*PUMP POWER
4DFSW11-120-300-2200-A/D	85V-280V	80V-430V	2200W	11m³/h	120m	2"	2m	<430V	≥1.3*PUMP POWER
4DFSW11-120-300-2200-HV	/	80V-430V	2200W	11m³/h	120m	2"	2m	<430V	≥1.3*PUMP POWER
4DFSW19-60-300-2200-A/D	85V-280V	80V-430V	2200W	19m³/h	60m	2"	2m	<430V	≥1.3*PUMP POWER
4DFSW19-60-300-2200-HV	/	80V-430V	2200W	19m³/h	60m	2"	2m	<430V	≥1.3*PUMP POWER
4DFSW30-36-300-2200-A/D	85V-280V	80V-430V	2200W	30m³/h	36m	2"	2m	<430V	≥1.3*PUMP POWER
4DFSW30-36-300-2200-HV	/	80V-430V	2200W	30m³/h	36m	2"	2m	<430V	≥1.3*PUMP POWER
4/6DFSW36-38-300-2200-A/D	85V-280V	80V-430V	2200W	36m³/h	38m	3"	2m	<430V	≥1.3*PUMP POWER
4/6DFSW36-38-300-2200-HV	/	80V-430V	2200W	36m³/h	38m	3"	2m	<430V	≥1.3*PUMP POWER