



AYS Series

Solar Pump





4AYS SERIES SUBMERSIBLE PUMP

AquaDUTY offers a complete range of solar- powered water solutions to meet all water supply requirements. From borehole pumping to surface water pumping, AquaDUTY provides the optimal solution for every application.

Applications

- Residential and agricultural
- Irrigation for various purposes
- Domestic water supply
- Industrial applications

Specification

- Flow rates up to 41 m³/hr and maximum head up to 135m at 50Hz
- IP65-rated control box with ambient temperature resistance up to 60°C
- Available in DC-input only, or a combined AC (Single phase 220V) & DC input model
- 2m standard length

Feature

- ✓ High-efficiency permanent magnet Brushless DC Motor - less panels, more water respectively.
- ✓ Direct DC feeding, AC and DC power source compatible.
- ✓ MPPT algorithm maximizes system performance.
- ✓ Automatic operation minimize manpower.
- ✓ Comprehensive motor protection (overload, overvoltage, undervoltage, phase loss, dry run, overheat) through solar controller.
- ✓ Oversized and high-quality motor bearings prolong the motor's lifespan and ensuring durability while working in harsh environments.
- ✓ Easy system set-up and LED display for working conditions monitoring.
- ✓ Protection against water hammering, with built-in check vale.

Available on Request

- ✓ Please contact sales for model sizing if desired duty point is not available in this catalog. AC (three phase) and DC input option.
- ✓ AC (three phase) and DC input option.

Material of Construction

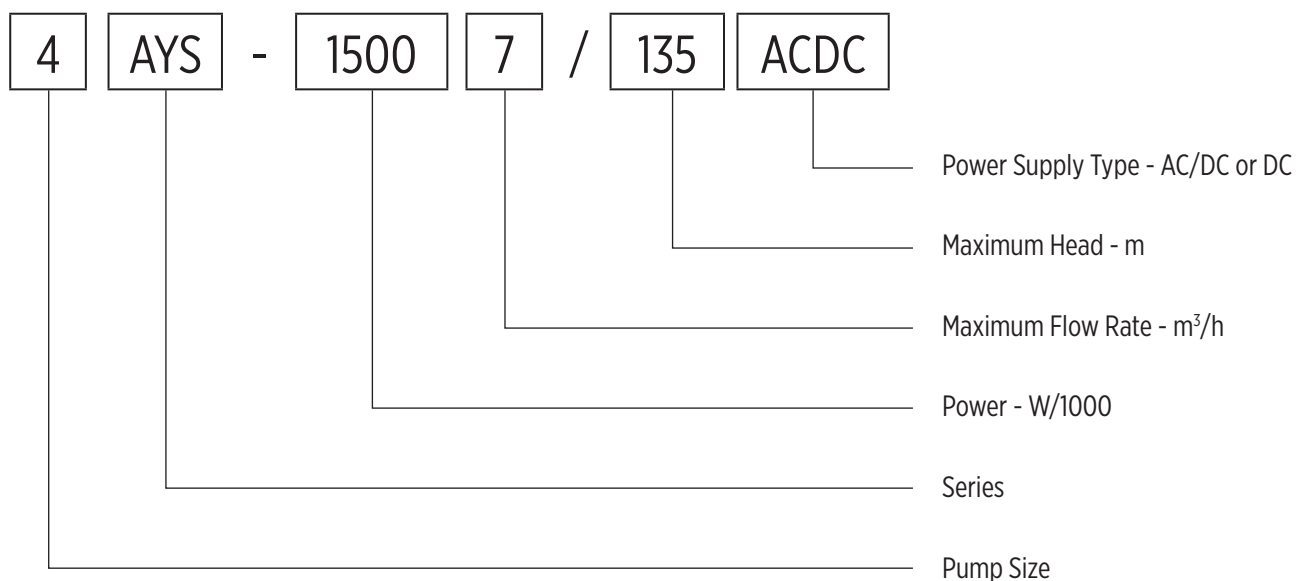
AYS Pump

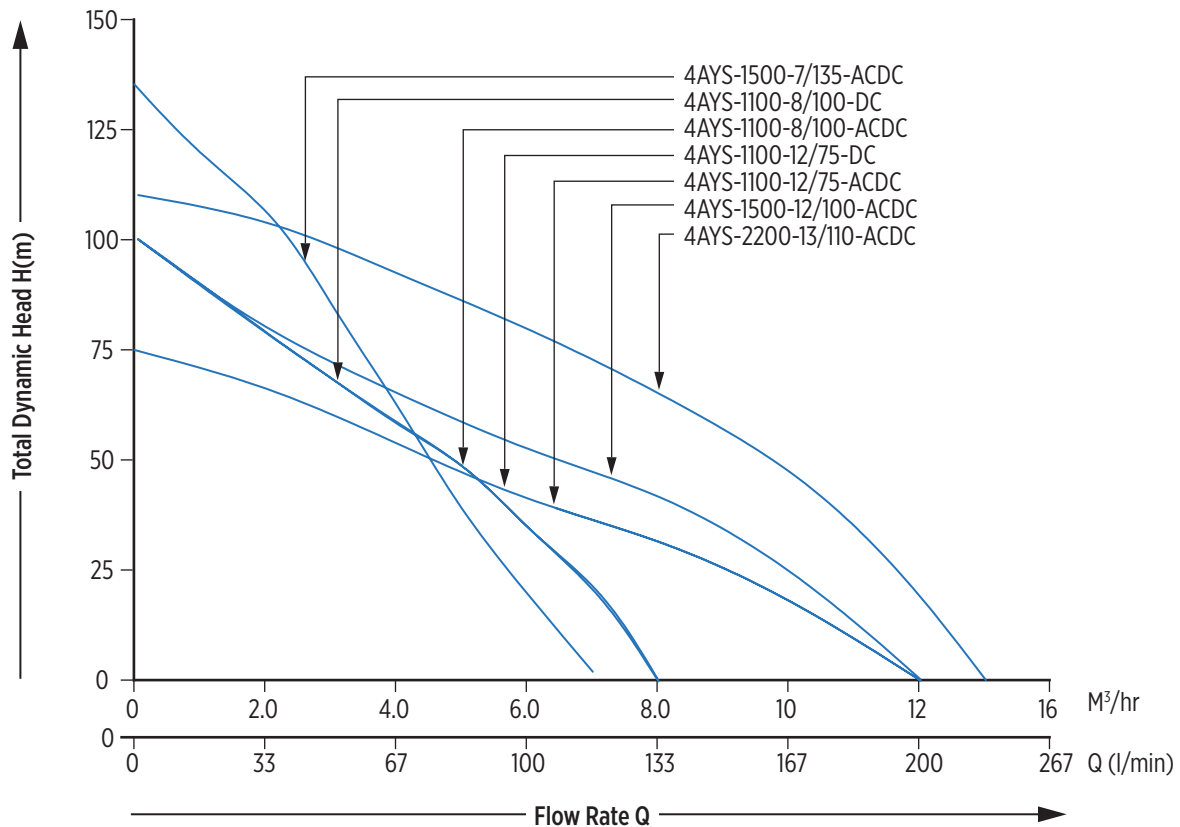
No.	Description	Material
1.	Discharge Head	Cast Stainless Steel
2.	Motor Bracket	Cast Stainless Steel
3.	Check Valve	ABS
4.	Pump Shell	Stainless Steel
5.	Cable Guard	Stainless Steel

No.	Description	Material
6.	Pump Shaft	Stainless Steel
7.	Impeller	Thermoplastic
8.	Diffuser	Thermoplastic
9.	Strainer	Stainless Steel
10.	Motor Outer Shell	Stainless Steel

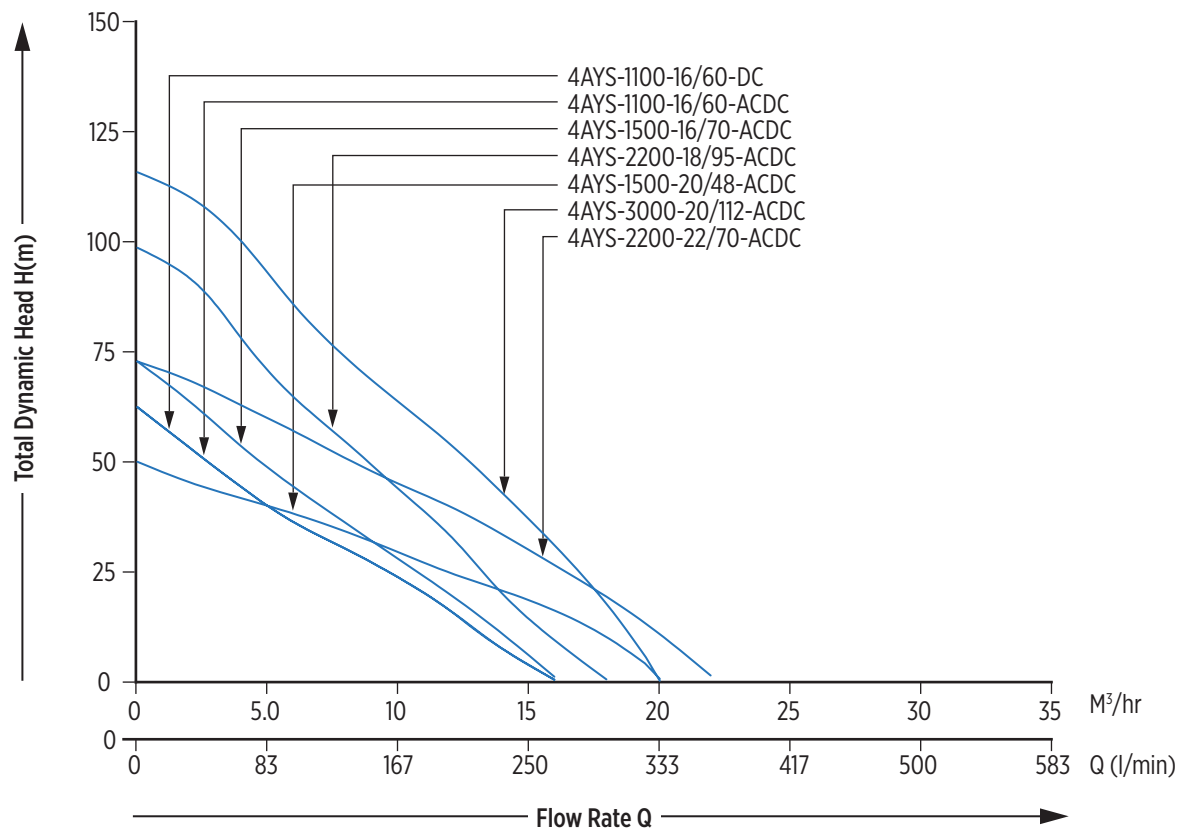
Product Identification

4AYS-1500-7/135-ACDC

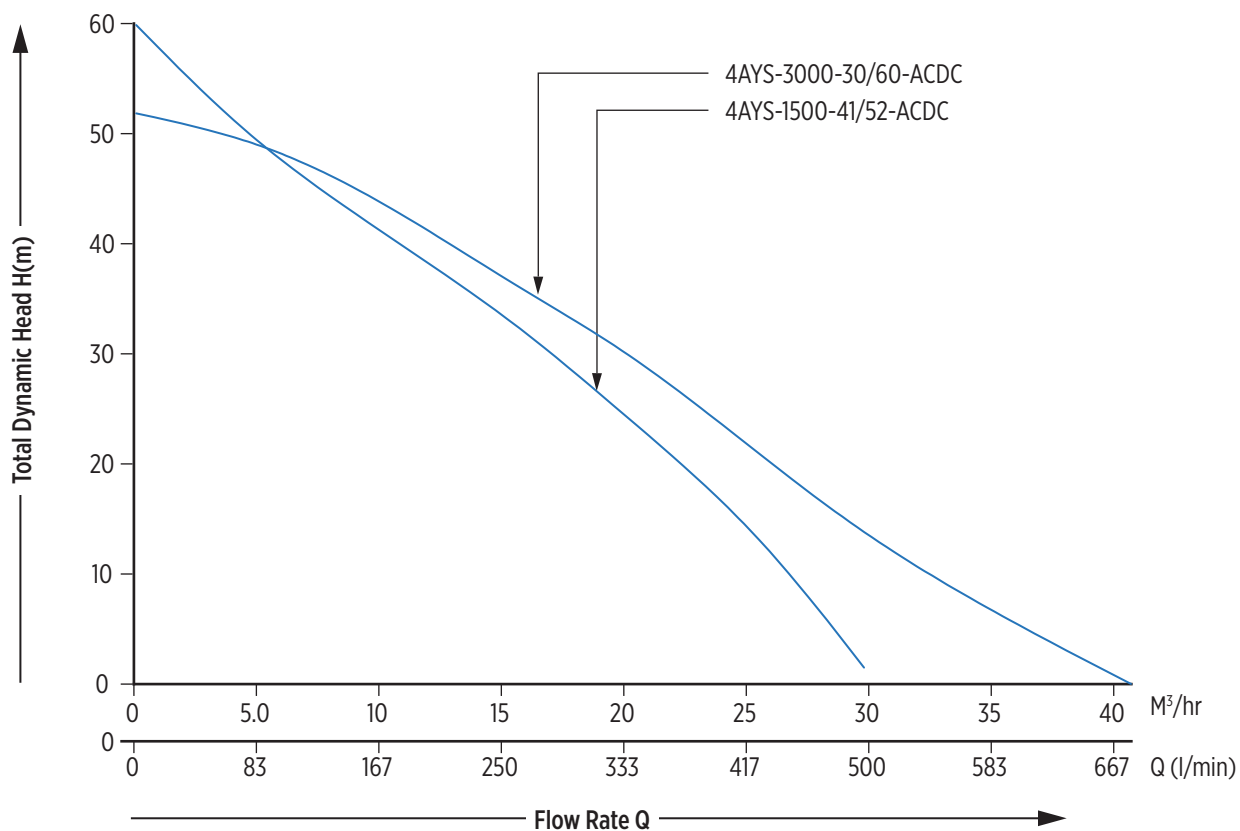




Model	Operating Data									
4AYS-1500-7/135-ACDC	Flow: Q m ³ /h	0	1	2	3	4	5	6	7	
	Flow: Q l/m	0	16.7	33.3	50	66.7	83.3	100	116.7	
	Head: m	135	119	106	85	62	38	20	2.6	
4AYS-1100-8/100-DC 4AYS-1100-8/100-ACDC	Flow: Q m ³ /h	0	1	2	3	4	5	6	7	8
	Flow: Q l/m	0	16.7	33.3	50	66.7	83.3	100	116.7	133.3
	Head: m	100	90	79	68	57	49	35	22	0.7
4AYS-1100-12/75-DC 4AYS-1100-12/75-ACDC	Flow: Q m ³ /h	0	2	4	6	8	10	12		
	Flow: Q l/m	0	33.3	66.7	100	133.3	167	200		
	Head: m	75	65	53	42	31	18	0.4		
4AYS-1500-12/100-ACDC	Flow: Q m ³ /h	0	2	4	6	8	10	12		
	Flow: Q l/m	0	33.3	66.7	100	133.3	167	200		
	Head: m	100	80	64	53	41	25	0.5		
4AYS-2200-13/110-ACDC	Flow: Q m ³ /h	0	2	4	6	8.5	10	12	13	
	Flow: Q l/m	0	33.3	66.7	100	141.7	167	200	216.7	
	Head: m	110	104	93	79	61	47	18	0.4	



Model		Operating Data											
4AYS-1100-16/60-DC 4AYS-110-16/60-ACDC	Flow: Q m3/h	0	2	4	6	8	10	12	14	16			
	Flow: Q l/m	0.0	33.3	66.7	100	133.3	166.7	200	233.3	266.7			
	Head: m	60	51	43	35	29	23	15	7	0.6			
4AYS-1500-16/70-ACDC	Flow: Q m3/h	0	2	4	6	8	10	12	14	16			
	Flow: Q l/m	0.0	33.3	66.7	100	133.3	166.7	200	233.3	266.7			
	Head: m	70	61	52	42	35	29	20	10	0.8			
4AYS-2200-18/95-ACDC	Flow: Q m3/h	0	2	4	6	8	10	12	14	16	18		
	Flow: Q l/m	0	33.3	66.7	100	133.3	166.7	200	233.3	266.7	300		
	Head: m	95	88	75	62	52	42	32	19	8	0.6		
4AYS-1500-20/48-ACDC	Flow: Q m3/h	0	2	4	6	8	10	12	14	16	18	20	
	Flow: Q l/m	0	33.3	66.7	100	133.3	166.7	200	233.3	266.7	300	333.3	
	Head: m	48	43	40	37	33	28	24	20	16	9	1	
4AYS-3000-20/112-ACDC	Flow: Q m3/h	0	2	4	6	8	10	12	14	16	20		
	Flow: Q l/m	0	33.3	66.7	100	133.3	166.7	200	233.3	266.7	333.3		
	Head: m	112	106	95	83	71	61	51	40	31	0.8		
4AYS-2200-22/70-ACDC	Flow: Q m3/h	0	2	4	6	8	10	12	14	16	18	20	22
	Flow: Q l/m	0	33.3	66.7	100	133.3	166.7	200	233.3	266.7	300	333.3	366.7
	Head: m	70	66	60	54	49	43	37	31	25	18	11	1



Model		Operating Data							
4AYS-3000-30/60-ACDC	Flow: $Q \text{ m}^3/\text{h}$	0	5	10	15	20	25	30	
	Flow: $Q \text{ l/m}$	0	83.3	166.7	250	333.3	416.7	500	
	Head: m	60	49	42	34	25	15	2	
4AYS-3000-41/52-ACDC	Flow: $Q \text{ m}^3/\text{h}$	0	5	10	15	20	25	30	41
	Flow: $Q \text{ l/m}$	0	83.3	166.7	250	333.3	416.7	500	683.3
	Head: m	52	49	44	37	31	22	14	0.6



ASC Series

Solar Controller

- ✓ Control box IP65 rated
- ✓ Working ambient temperature up to 60°C
- ✓ Controller available in DC input only or AC (Single phase 220V) and DC input option

Part No.	Description	KW	HP	DC Input Range	AC Input Range	VOC	Rec. Solar Panel Qty
98B24C002	ASC, 1100W, 110V, DC	1.1	1.5	80V-220V	NA	220V	3 X 550W
98B24C512	ASC, 1100W, 150V, DC, AC 1PH 220V 50Hz	1.1	1.5	80V-450V	85V-280V	450V	3 X 550W
98B24C513	ASC, 1500W, 200V, DC, AC 1PH 220V 50Hz	1.5	2	80V-450V	85V-280V	450V	4 X 550W
98B24C514	ASC, 2200W, 300V, DC, AC 1PH 220V 50Hz	2.2	3	80V-450V	85V-280V	450V	6 X 550W
98B24C515	ASC, 3000W, 300V, DC, AC 1PH 220V 50Hz	3	4	80V-450V	85V-280V	450V	7 X 550W



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