



4SAE-4SA Series

Solar Pump

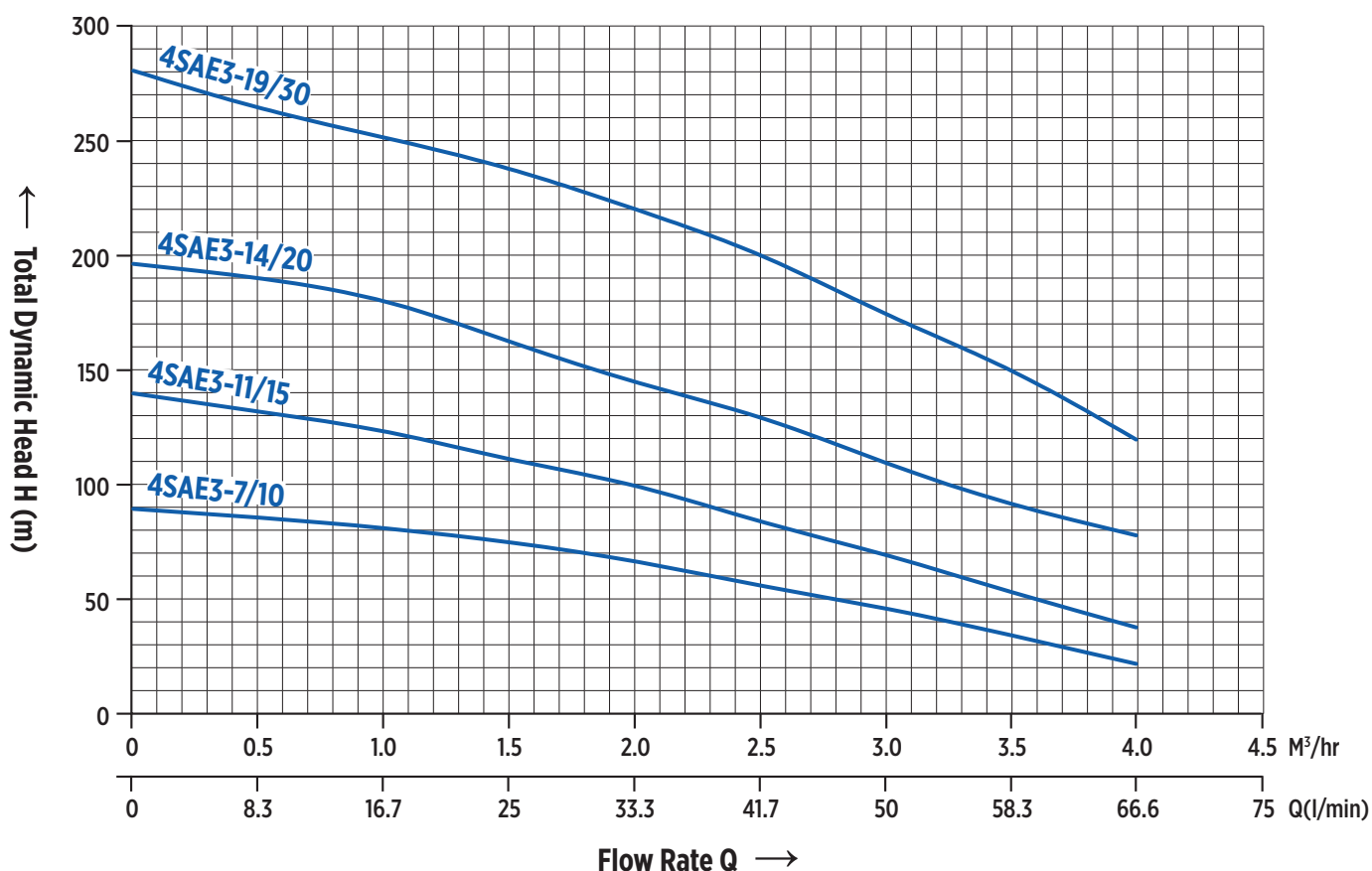
Features

- ✓ High efficiency permanent magnet Brushless DC Motor – less panels, more water respectively
- ✓ Direct DC feeding, AC and DC power source compatible (depends on models)
- ✓ MPPT algorithm maximizes system performance
- ✓ Automatic operation minimize manpower requirement.
- ✓ Easy system set-up and LED display for working conditions monitoring.
- ✓ Protection against water hammering with built-in check valve.
- ✓ Comprehensive motor protection (overload, overvoltage, undervoltage, phase loss, dry run, overheat) through solar controller.
- ✓ Encapsulated submersible motor with water lubricated thrust bearing design for maintenance free operation and high reliability.

Specification

- ✓ Control box IP65 rated, working ambient temperature up to 60°C (controller only)
- ✓ Controller available in DC input only or AC (Single phase 220V) and DC input option
- ✓ 1.5m standard cable length up to 2HP, 2.5m length for 3HP motor

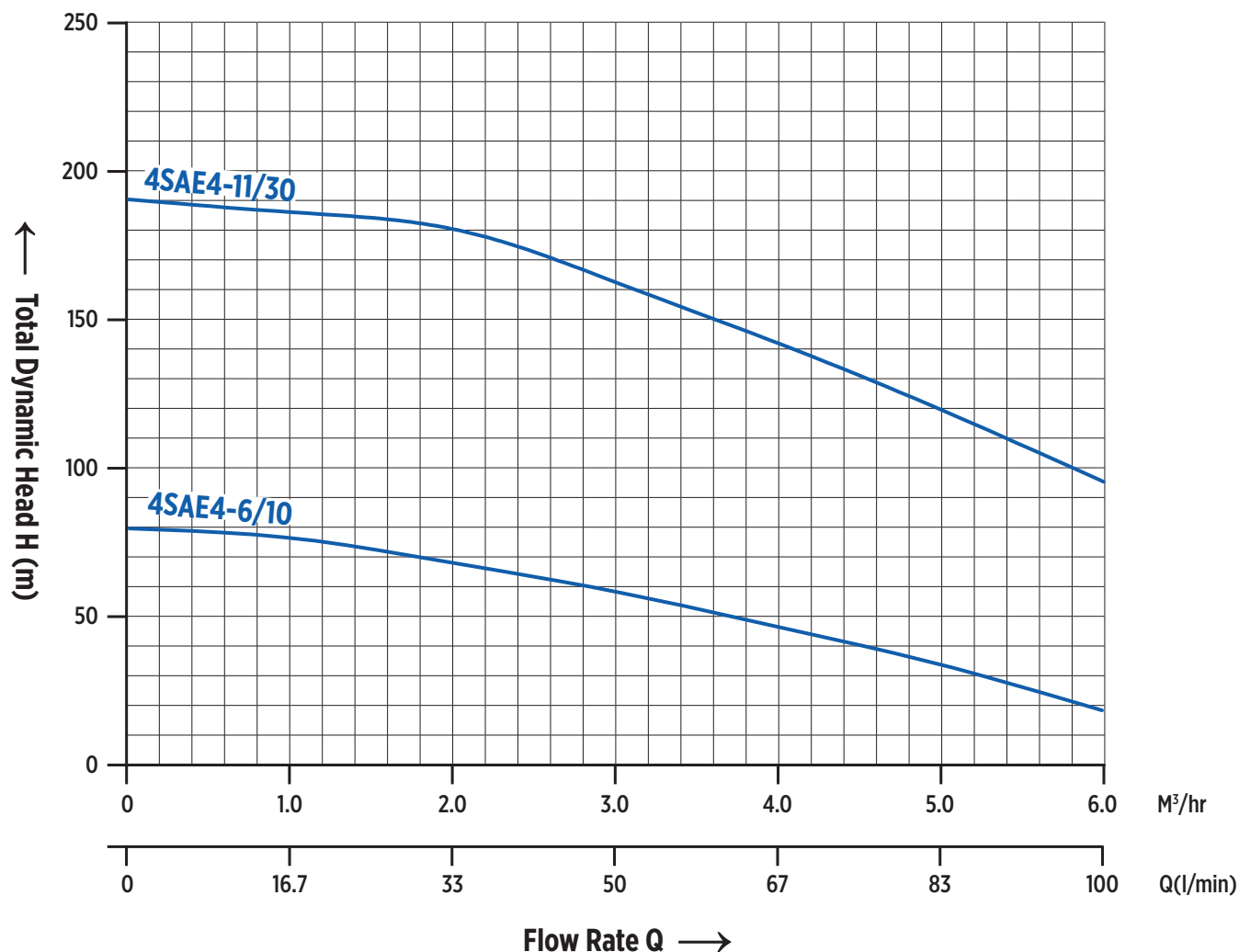
Performance Curve - 4SAE3



Part Number	Pump Model	Stages	Power		Outlet	Q	m³/hr	0	0.5	1	1.5	2	2.5	3	3.5	4
			kW	HP			l/min	0	8.3	16.7	25	33.3	41.7	50	58.3	66.6
98513030710	4SAE3-7/10	7	0.75	1	1.5"	Head (m)	90	84	81	75	67	57	47	34	23	
98513031115	4SAE3-11/15	11	1.1	1.5	1.5"		140	132	124	112	100	86	70	54	39	
98513031420	4SAE3-14/20	14	1.5	2	1.5"		197	190	180	162	146	130	110	91	80	
98513031930	4SAE3-19/30	19	2.2	3	1.5"		280	265	251	238	220	200	178	150	120	

NOTE: Franklin Electric reserves the right to amend specification without prior notice.

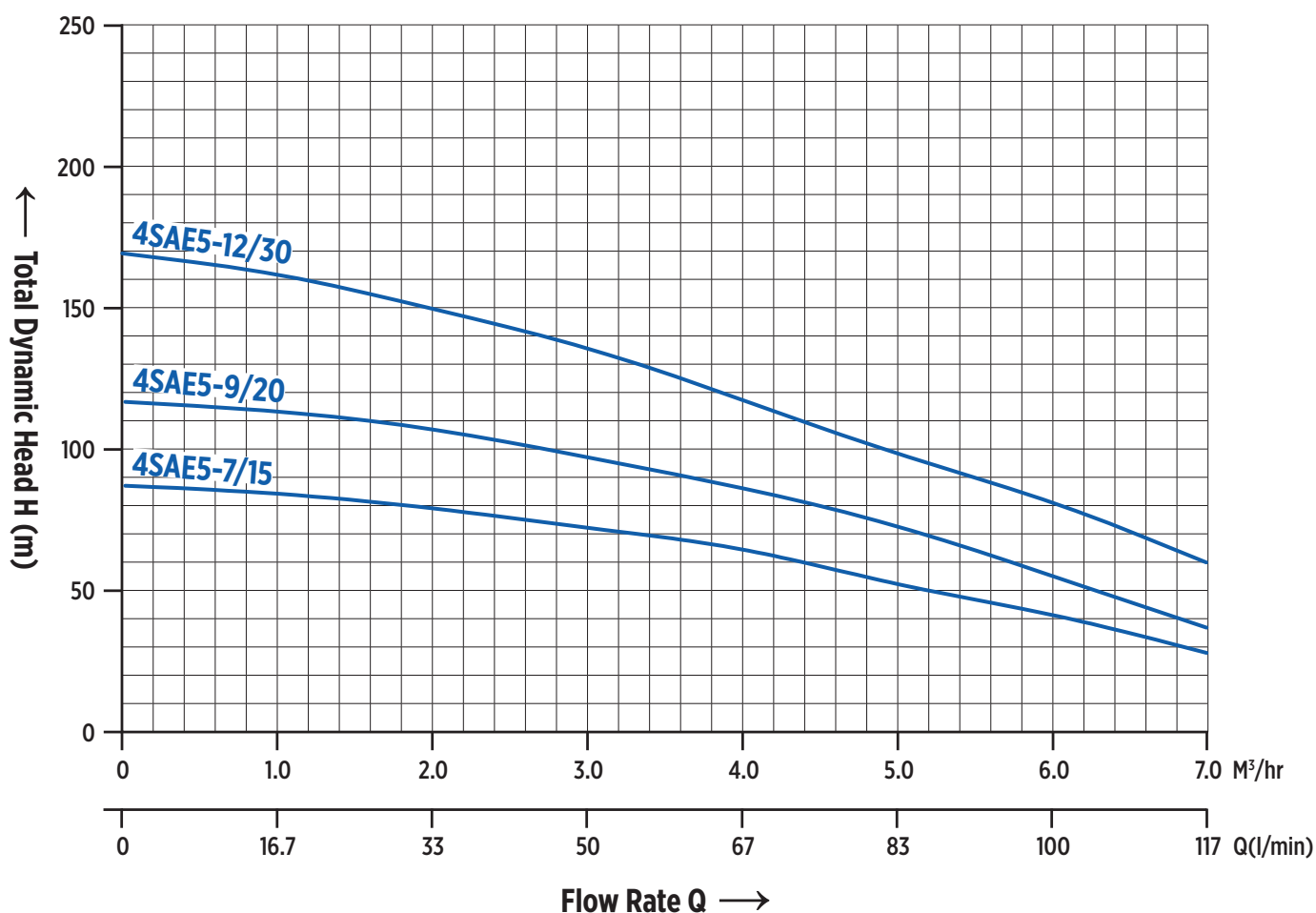
Performance Curve - 4SAE4



Pump Model	Pump Model	Stages	Power		Outlet	Q	m³/hr	0	1	2	3	4	5	6
			kW	HP			l/min	0	16.7	33.3	50	67	83	100
98513040610	4SAE4-6/10	6	0.75	1	1.5"	Head (m)		79	74	67	57	47	37	19
98513041130	4SAE4-11/30	11	1.5	2	1.5"			190	185	180	161	140	120	100

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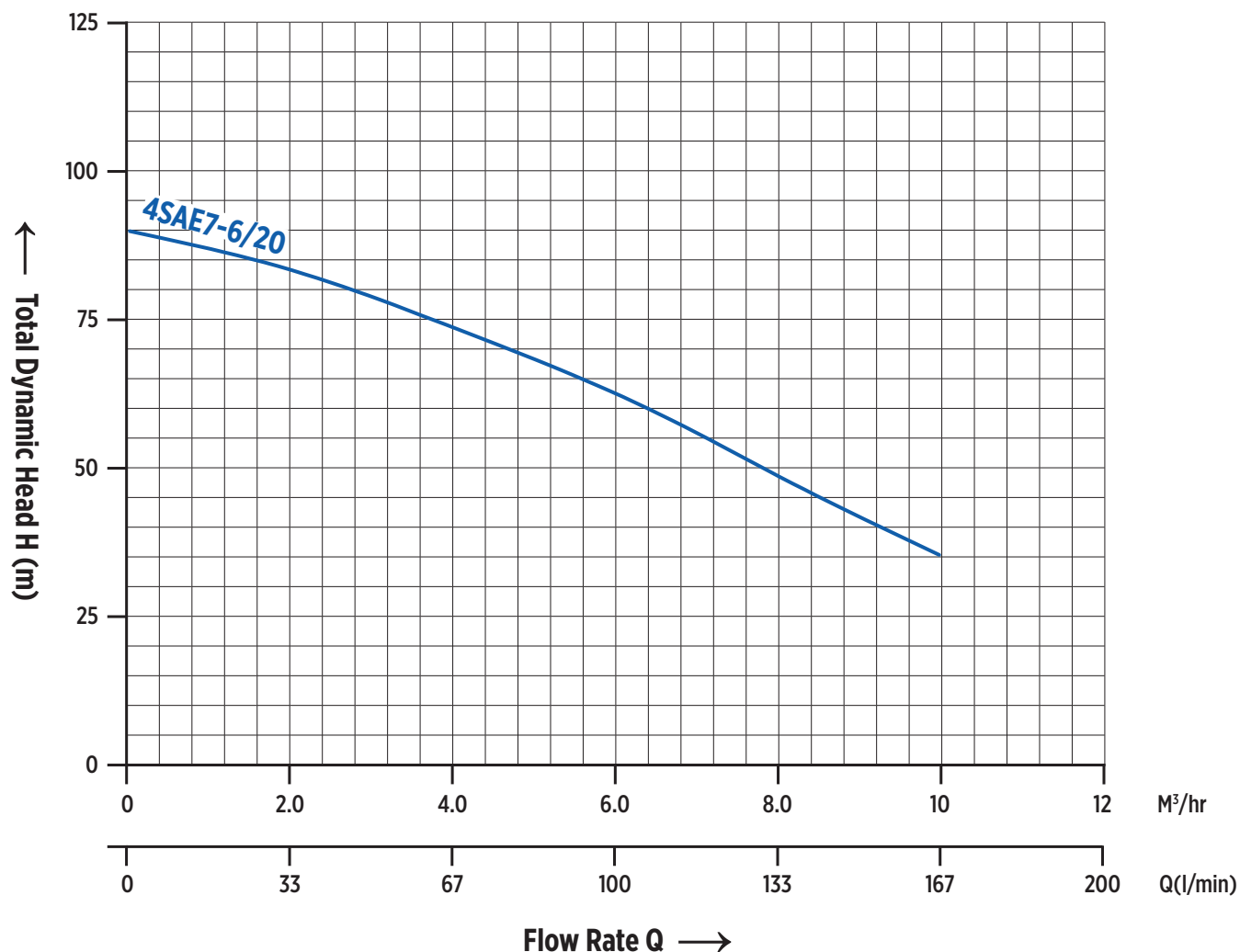
Performance Curve - 4SAE5



Part Number	Pump Model	Stages	Power		Outlet	Q	m³/hr	0	1	2	3	4	5	6	7
			kW	HP			l/min	0	16.7	33.3	50	67	83	100	117
98513050715	4SAE5-7/15	7	1.1	1.5	1.5"	Head (m)		88	85	80	71	67	51	40	26
98513050920	4SAE5-9/20	9	1.5	2	1.5"			115	111	105	96	83	72	53	38
98513051230	4SAE5-12/30	12	2.2	3	1.5"			170	162	151	135	118	100	80	58

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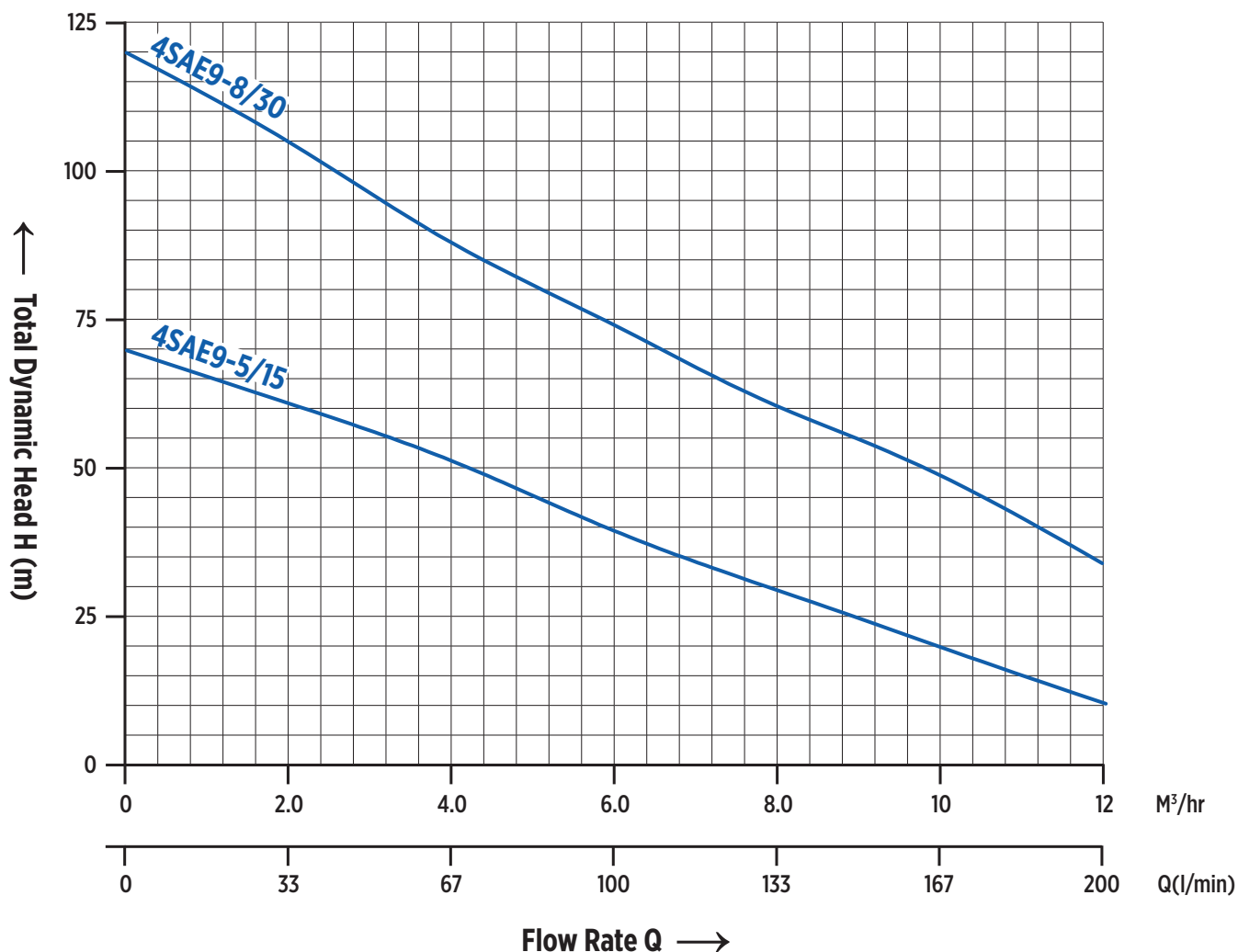
Performance Curve - 4SAE7



Part Number	Pump Model	Stages	Power		Outlet	Q	m³/hr	0	2	4	6	7	8	10
			kW	HP			l/min	0	33	67	100	116	133	167
98513070620	4SAE7-6/20	6	1.5	2	2"	Head (m)		90	83	72	62	55	49	35

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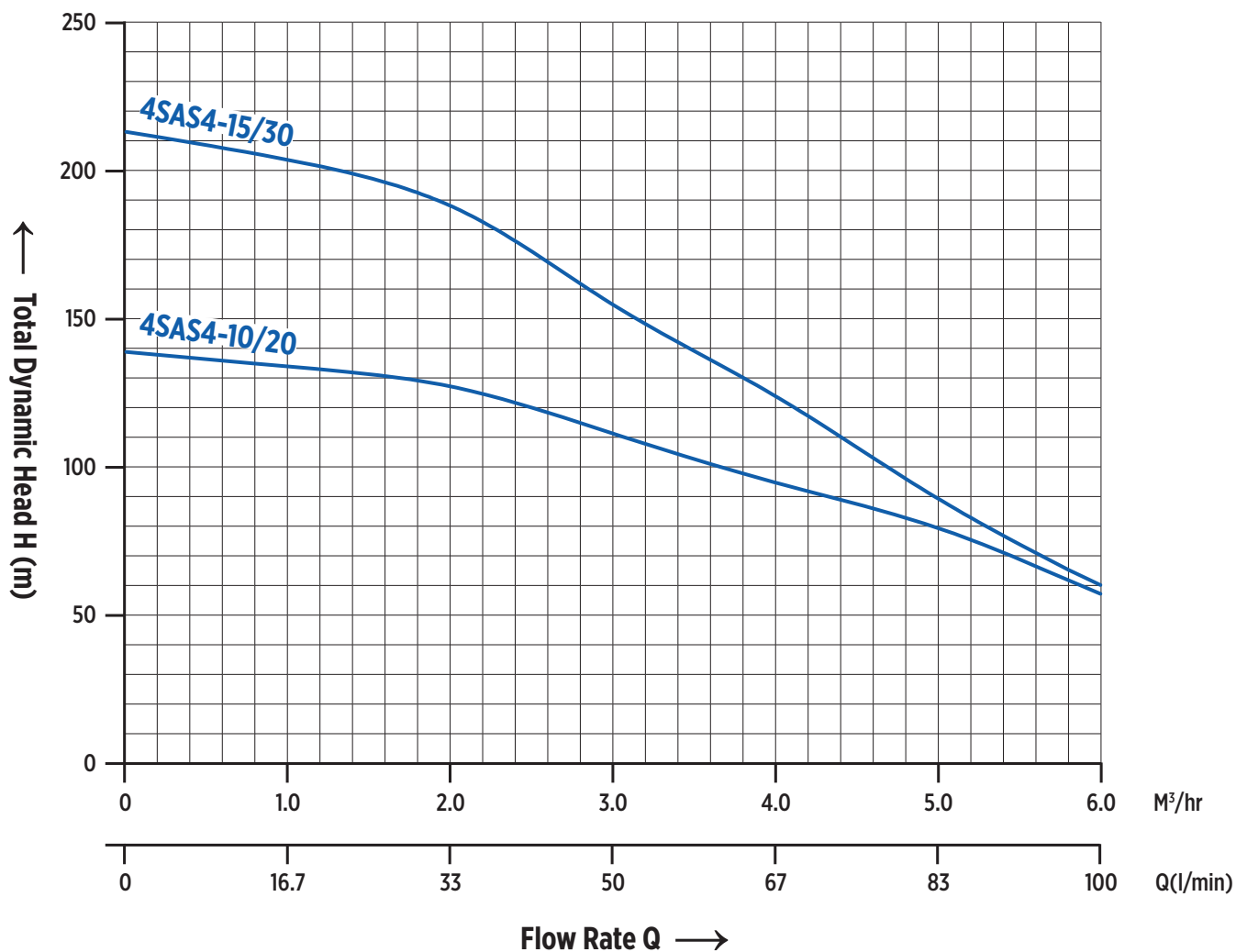
Performance Curve - 4SAE9



Part Number	Pump Model	Stages	Power		Outlet	Q	m³/hr	0	2	4	6	8	9	10	12
			kW	HP				0	33	67	100	133	150	167	200
98513090515	4SAE9-5/15	5	1.1	1.5	2"	Head (m)		70	61	51	39	29	24	19	10
98513090830	4SAE9-8/30	8	2.2	3	2"			120	105	92	76	62	56	49	34

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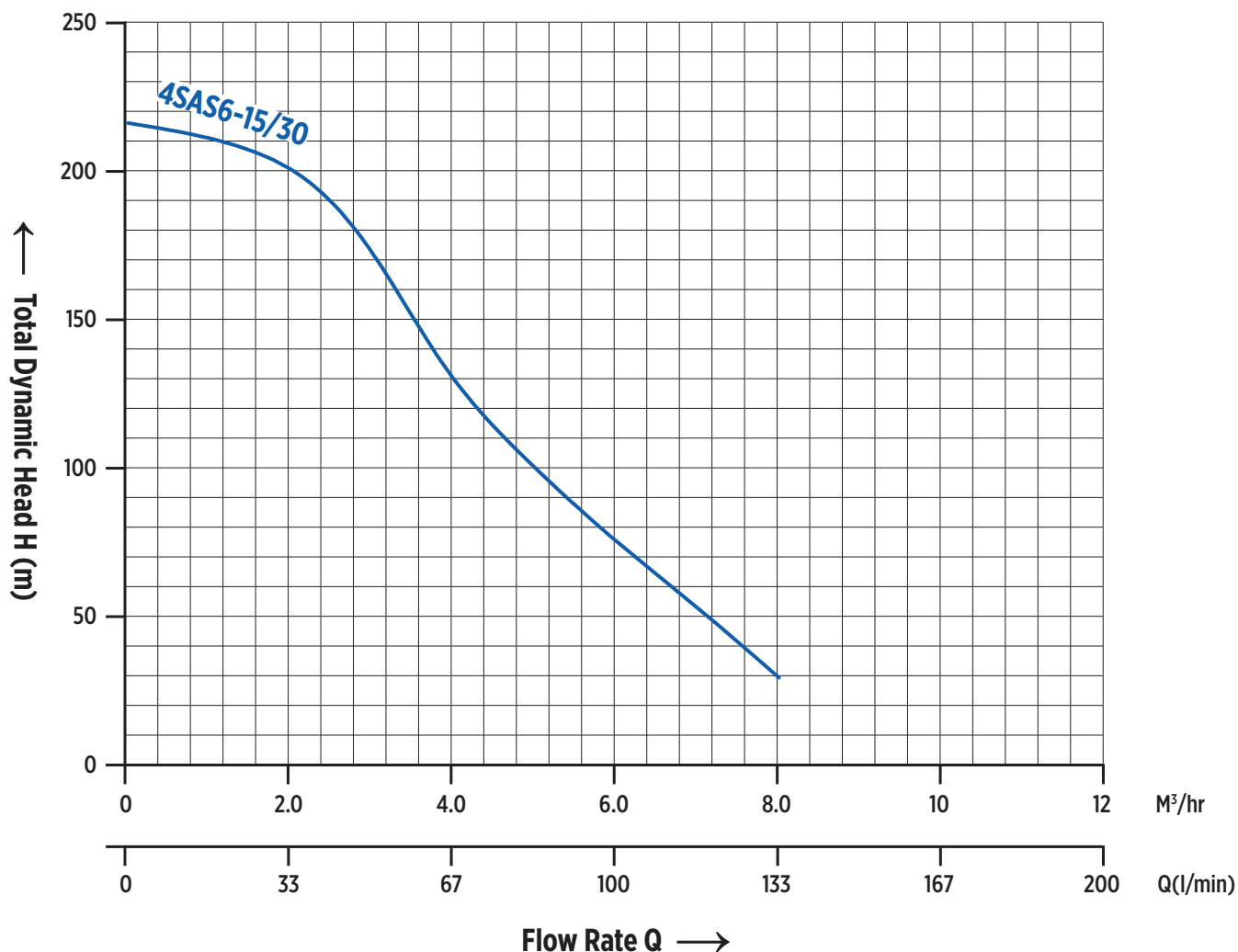
Performance Curve - 4SAS4



Part Number	Pump Model	Stages	Power		Outlet	Q	m³/hr	0	1	2	3	4	5	6
			kW	HP			l/min	0	16.7	33	50	67	83	100
98514041020	4SAS4-10/20	10	1.5	2	1.5"	Head (m)		140	135	128	112	95	80	57
98514041530	4SAS4-15/30	15	2.2	3	1.5"			215	202	190	161	148	100	60

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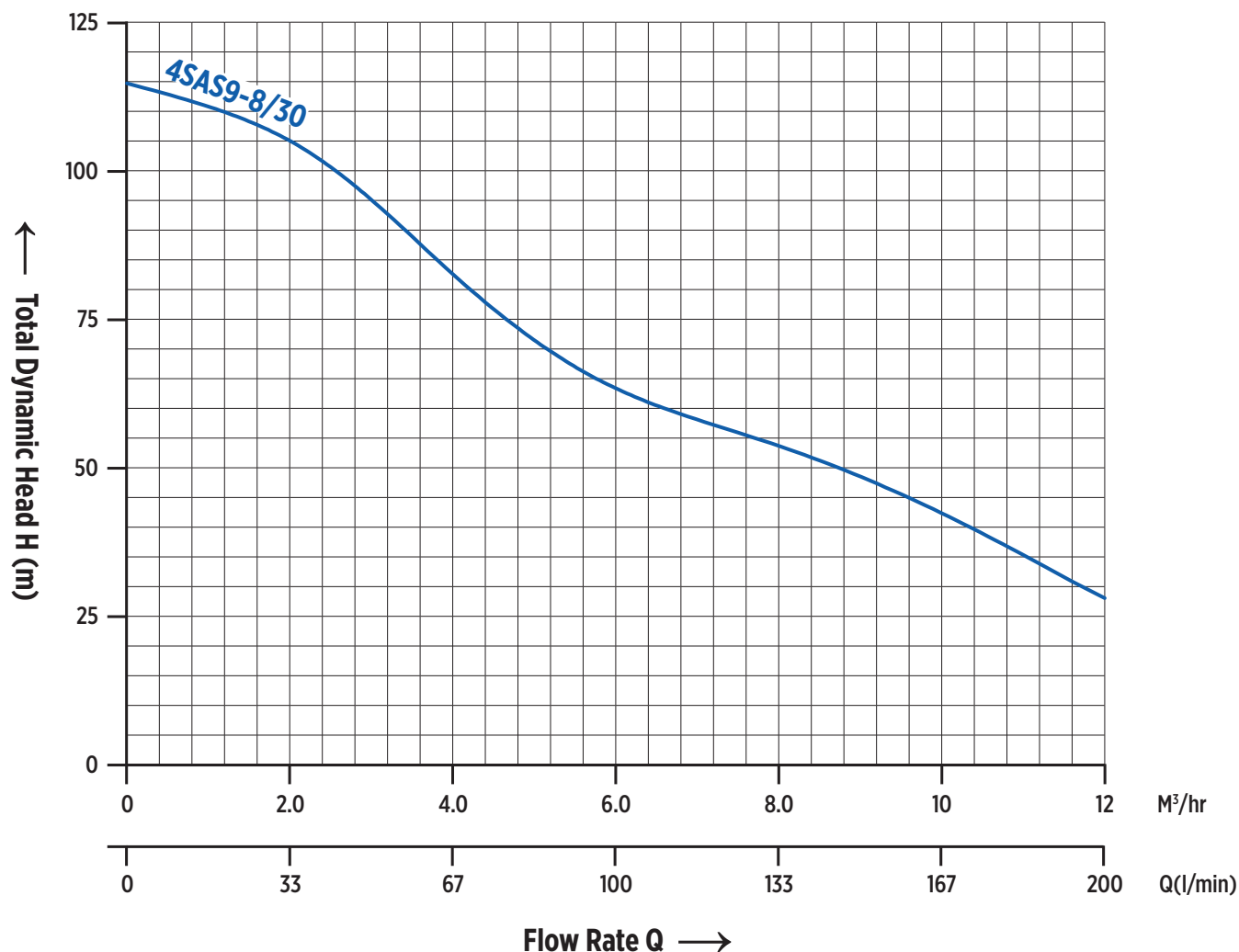
Performance Curve - 4SAS6



Part Number	Pump Model	Stages	Power		Outlet	Q	m³/hr	0	2	4	5	6	7	8
			kW	HP			l/min	0	33	67	83	100	117	133
98514061530	4SAS6-15/30	15	2.2	3	1.5"	Head (m)		215	183	147	106	79	52	30

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Performance Curve - 4SAS9



Part Number	Pump Model	Stages	Power		Outlet	Q	m³/hr	0	2	4	6	8	10	12
			kW	HP			l/min	0	33	67	100	133	167	200
98514090830	4SAS9-8/30	15	2.2	3	2"	Head (m)		115	104	89	75	61	47	36

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4SCB Series Solar Controller

Technical Data

- 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	Rec. DC Input Range	AC Input Range	VOC	Rec. Solar Panel Qty
98564C001	4SCB, 1HP, DC	0.75	1	80-150V	NA	220V	3 X 550W
98514C511	4SCB, 1HP, DC, AC 1PH 220V 50Hz	0.75	1	60-380V	150-240V	450V	3 X 550W
98514C002	4SCB, 1.5HP, DC	1.1	1.5	60-380V	NA	450V	5 X 550W
98514C512	4SCB, 1.5HP, DC, AC 1PH 220V 50Hz	1.1	1.5	60-380V	150-240V	450V	5 X 550W
98514C003	4SCB, 2HP, DC	1.5	2	60-380V	NA	450V	6 X 550W
98514C513	4SCB, 2HP, DC, AC 1PH 220V 50Hz	1.5	2	60-380V	150-240V	450V	6 X 550W
98514C004	4SCB, 3HP, DC	2.2	3	60-380V	NA	450V	7 X 550W
98514C514	4SCB, 3HP, DC, AC 1PH 220V 50Hz	2.2	3	60-380V	150-240V	450V	7 X 550W

4" Coverco BLDC Motor

Part No.	Description	kW	HP	DC Rated Voltage	Lead Length
985641511	Motor, 1HP, DC 110V	0.75	1	110V	1.5m
985642512	Motor, 1.5HP, DC 150V	1.1	1.5	150V	1.5m
985643513	Motor, 2HP, DC 180V	1.5	2	180V	1.5m
985644514	Motor, 3HP, DC 250V	2.2	3	250V	2.5m



For over 50 years, Coverco has been a renowned Italian manufacturer of premium submersible motors. Since becoming part of Franklin Electric in 2002, Coverco leverages enhanced R&D, expanded production capacity, and a strengthened global sales and service network. This powerful combination delivers an extensive portfolio of reliable pumping solutions worldwide.

Where grid power is unavailable or unreliable, Coverco offer a comprehensive range of solar-powered pumping systems, ensuring essential water access powered by sustainable energy.

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