



SPE-SEE Series Solar Pumps

COVERCO is a long recognized Italian manufacturer of high-quality submersible motors with more than 50 years of experience in the industry. FRANKLIN ELECTRIC acquired COVERCO in year 2002, further strengthening COVERCO R&D capability, production capacity, sales, and service networks, delivering expanded product portfolio around the globe.

Water is essential to all forms of life. In many locations around the world, traditional power is unavailable or unreliable to power a submersible pump and motor.

Relying on our proven system technology, Coverco is offering wide range of solar powered pumping system to our customers.

APPLICATIONS

- Residential and agriculture
- Irrigation for various purposes
- Domestic water supply
- Industrial

FEATURES

- High efficiency permanent magnet 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 requirement.
- Comprehensive motor protection (overload, overvoltage, undervoltage, phase loss, dry run, overheat) through solar controller.
- Oversized and high quality motor bearing prolong motor's lifespan and durability working in harsh environments.
- Easy system set-up and LED display for working conditions monitoring.
- Protection against water hammering with built-in check valve.

SPECIFICATION

- Flow: up to 22m³/hr, Head up to 135m at 50Hz
- Control box IP65 rated, working ambient temperature up to 60°C (controller only)
- Controller available in DC input only or AC (single phase) and DC input option

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

ACCESSORIES

Description
Pump Outlet Adapter
Heat Shrink Sleeve
Hose Clamp
Screw Drivers
Float Switch
Snap Hook
Bolts and Nuts
Teflon Tape
Electrical Tape
Wire Connector/Lug



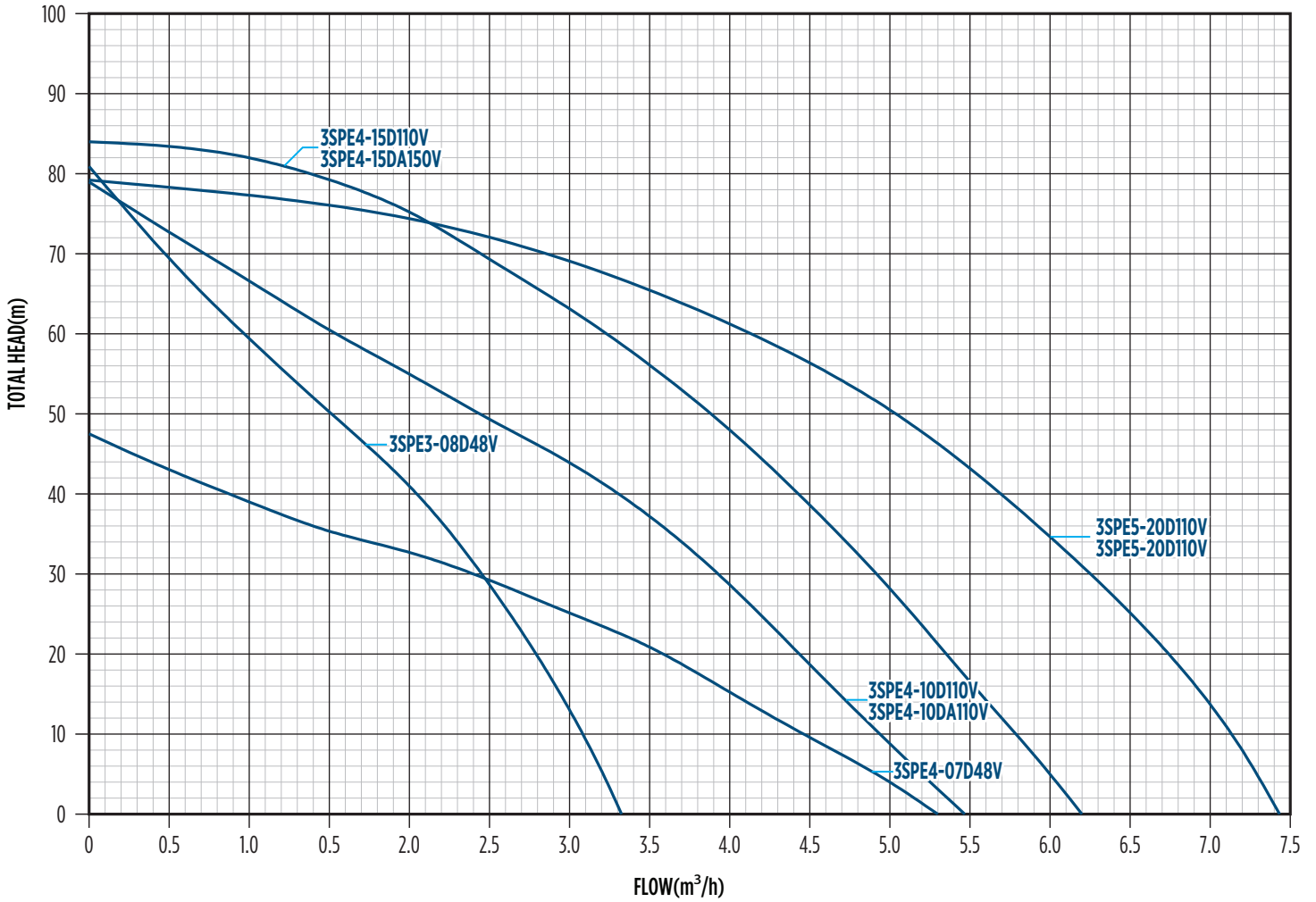
MATERIAL OF CONSTRUCTION TABLE

Description	Material
SPE Pump	
Discharge Head	Cast Stainless Steel
Motor Bracket	Cast Stainless Steel
Check Valve	Polycarbonate
Pump Shell	Stainless Steel
Cable Guard	Stainless Steel
Pump Shaft	Stainless Steel
Impeller	Thermoplastic
Diffuser	Thermoplastic
Strainer	Stainless Steel
Motor	
Motor Outer Shell	Stainless Steel
Motor Shaft	Stainless Steel

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SEE Pump	
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Pump Shaft	Stainless Steel
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Motor	
Motor Outer Shell	Stainless Steel
Motor Shaft	Stainless Steel

Note: Photo for illustration purposes only

Performance Curve - 3SPE

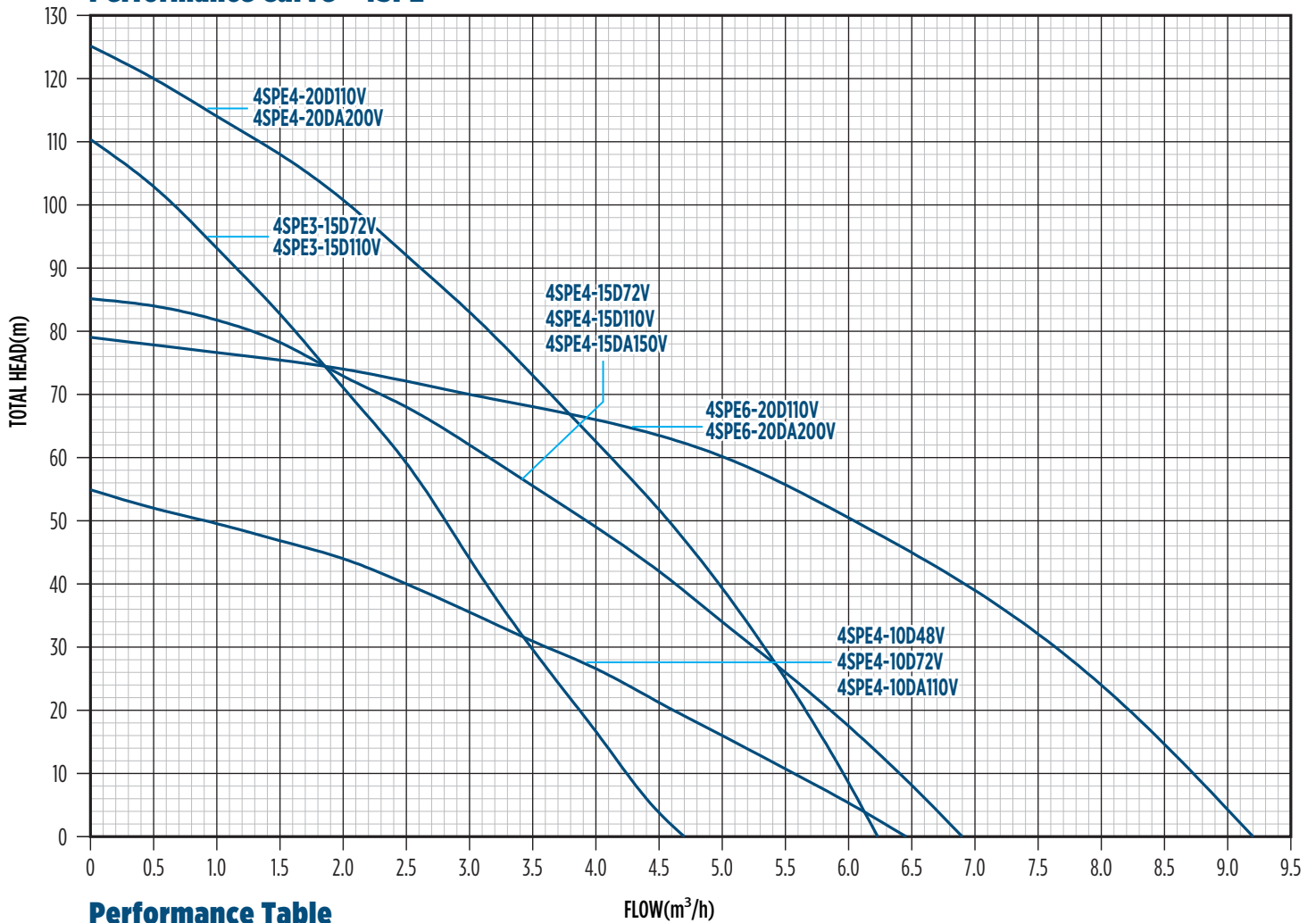


Performance Table

Pump Model	Voltage	Optimum Input Voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar Panel	
								Open Circuit Voltage (VOC)	Power
3SPE3-08D48V	48V	60V-90V	600W	3.5m³/h	80m	1.25"	2m	< 105V	≥ 1.3*Pump Power
3SPE4-07D48V	48V	60V-90V	500W	5.0m³/h	45m	1.5"	2m	< 105V	≥ 1.3*Pump Power
3SPE4-10D110V	110V	110V-150V	750W	5.2m³/h	75m	1.5"	2m	< 210V	≥ 1.3*Pump Power
3SPE4-10DA110V	85V-280V	80V-430V	750W	5.2m³/h	75m	1.5"	2m	< 430V	≥ 1.3*Pump Power
3SPE4-15D110V	110V	110V-150V	1100W	6.0m³/h	84m	1.5"	2m	< 210V	≥ 1.3*Pump Power
3SPE4-15DA150V	85V-280V	80V-430V	1100W	6.0m³/h	84m	1.5"	2m	< 430V	≥ 1.3*Pump Power
3SPE5-20D110V	110V	110V-150V	1500W	7.5m³/h	78m	1.5"	2m	< 210V	≥ 1.3*Pump Power
3SPE5-20DA110V	85V-280V	80V-430V	1500W	7.5m³/h	78m	1.5"	2m	< 430V	≥ 1.3*Pump Power

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

Performance Curve - 4SPE

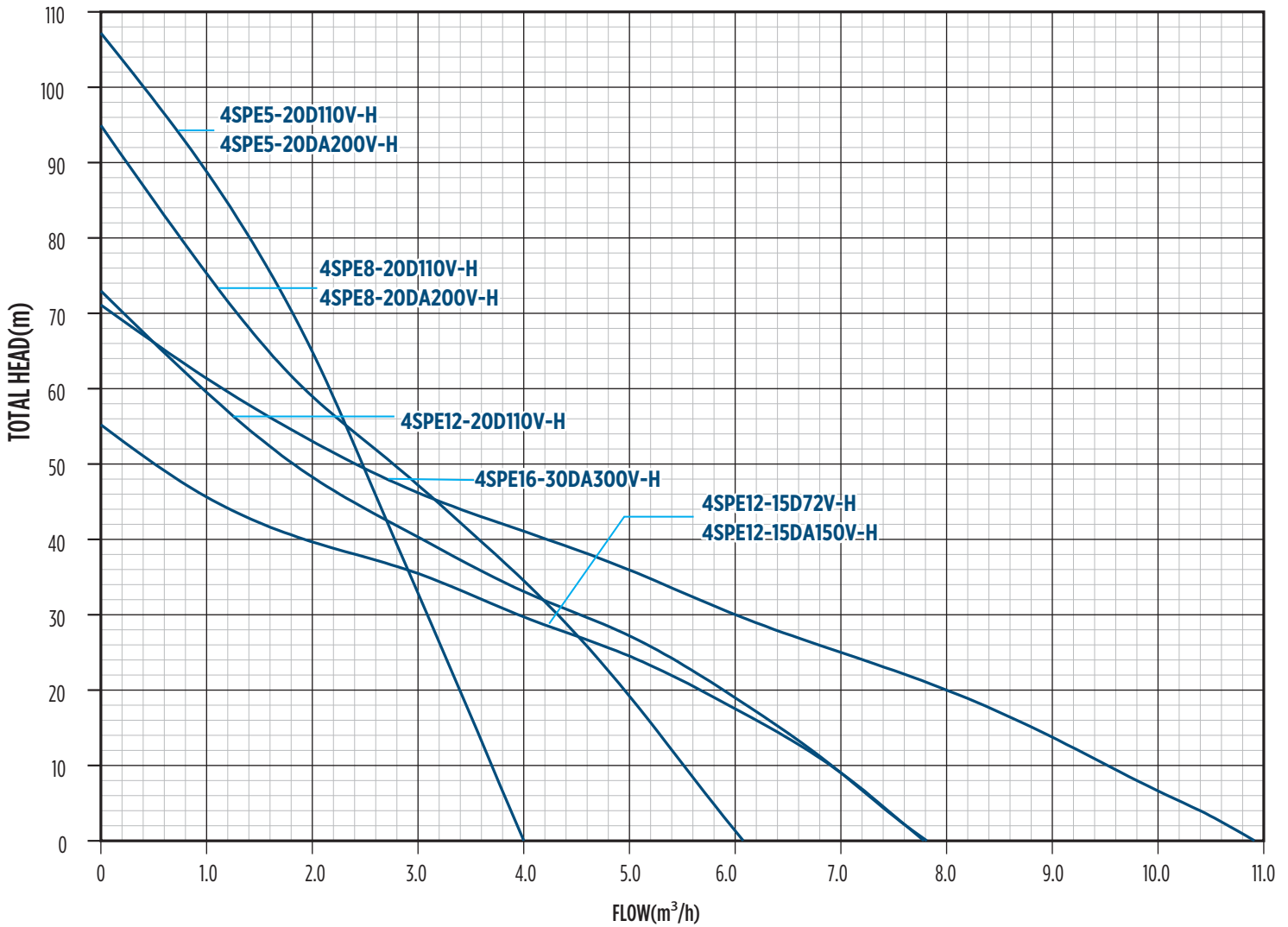


Performance Table

Pump Model	(AC) Voltage	(DC) Voltage	Power	Max. Flow	Max. Head	Outlet	Cable	Solar Panel	
								Open Circuit Voltage (VOC)	Power
4SPE3-15D72V	72V	90V-120V	1100W	4.5m³/h	110m	1.5"	2m	< 210V	≥ 1.3*Pump Power
4SPE3-15D110V	110V	110V-150V	1100W	4.5m³/h	110m	1.5"	2m	< 210V	≥ 1.3*Pump Power
4SPE4-10D48V	48V	60V-90V	750W	6.0m³/h	56M	1.25"	2m	< 105V	≥ 1.3*Pump Power
4SPE4-10D72V	72V	90V-120V	750W	6.0m³/h	56M	1.25"	2m	< 160V	≥ 1.3*Pump Power
4SPE4-10DA110V	85V-280V	80V-430V	750W	6.0m³/h	56m	1.25"	2m	< 430V	≥ 1.3*Pump Power
4SPE4-15D72V	72V	90V-120V	1100W	6.0m³/h	84M	1.25"	2m	< 160V	≥ 1.3*Pump Power
4SPE4-15D110V	110V	110V-150V	1100W	6.0m³/h	84m	1.25"	2m	< 210V	≥ 1.3*Pump Power
4SPE4-15DA150V	85V-280V	80V-430V	1100W	6.0m³/h	84m	1.25"	2m	< 430V	≥ 1.3*Pump Power
4SPE4-20D110V	110V	110V-150V	1500W	6.0m³/h	135m	1.25"	2m	< 210V	≥ 1.3*Pump Power
4SPE4-20DA200V	85V-280V	80V-430V	1500W	6.0m³/h	135m	1.25"	2m	< 430V	≥ 1.3*Pump Power
4SPE6-20D110V	110V	110V-150V	1500W	9.0m³/h	85m	2"	2m	< 210V	≥ 1.3*Pump Power
4SPE6-20DA200V	85V-280V	80V-430V	1500W	9.0m³/h	85m	2"	2m	< 430V	≥ 1.3*Pump Power

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Performance Curve - 4SPE-H

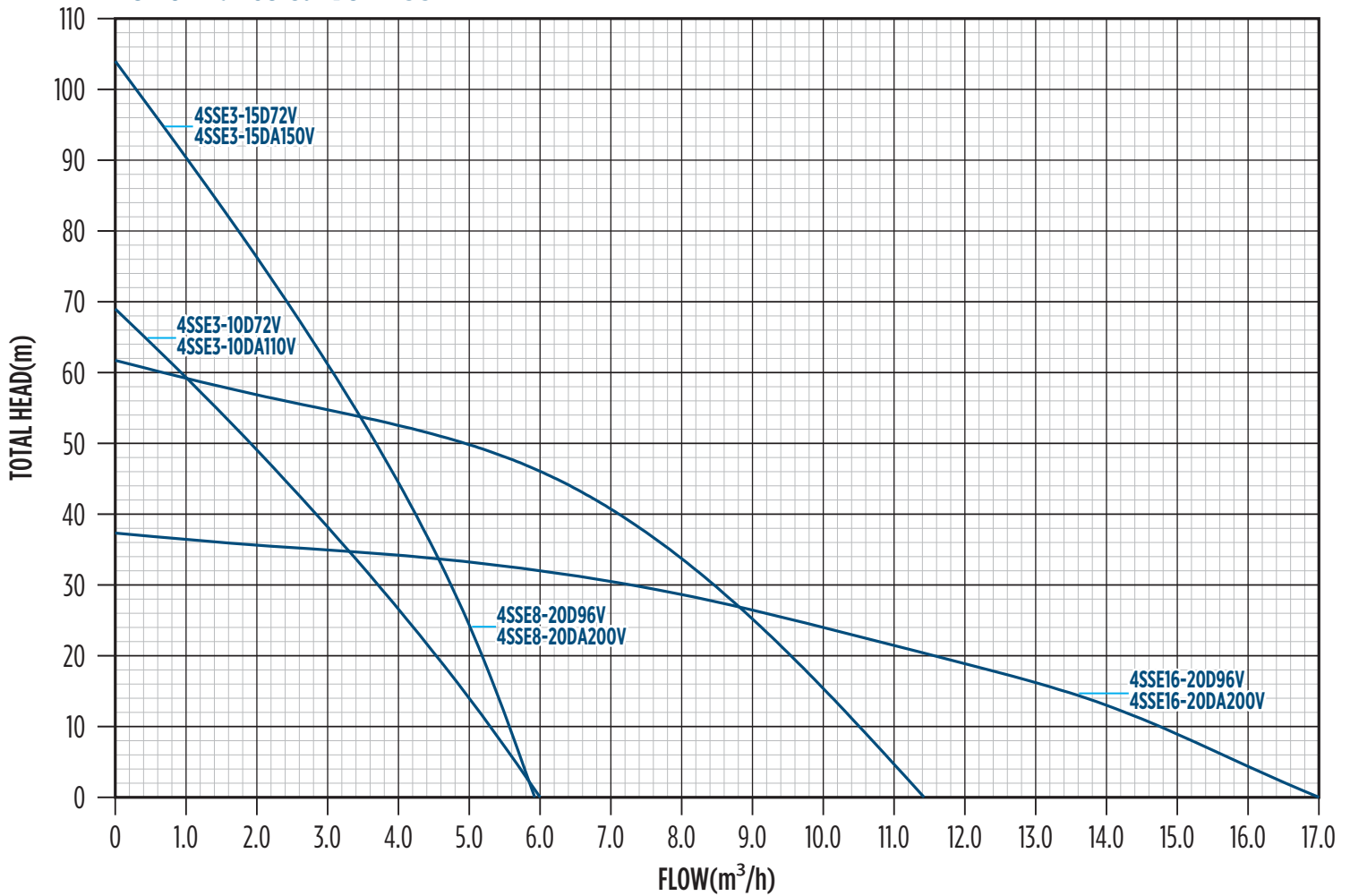


Performance Table

Pump Model	Voltage	Optimum Input Voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar Panel	
								Open Circuit Voltage (VOC)	Power
4SPE5-20D110V-H	110V	110V-150V	1500W	7.5m ³ /h	100m	2"	2m	< 210V	≥ 1.3*Pump Power
4SPE5-20DA200V-H	85V-280V	80V-430V	1500W	7.5m ³ /h	110m	2"	2m	< 430V	≥ 1.3*Pump Power
4SPE8-20D110V-H	110V	110V-150V	1500W	11.5m ³ /h	100m	2"	2m	< 210V	≥ 1.3*Pump Power
4SPE8-20DA200V-H	85V-280V	80V-430V	1500W	11.5m ³ /h	100m	2"	2m	< 430V	≥ 1.3*Pump Power
4SPE12-20D110V-H	110V	110V-150V	1500W	15.5m ³ /h	65m	2"	2m	< 210V	≥ 1.3*Pump Power
4SPE12-15D72V-H	72V	90V-120V	1100W	15.0m ³ /h	55m	2"	2m	< 160V	≥ 1.3*Pump Power
4SPE12-15DA150V-H	85V-280V	80V-430V	1100W	15.0m ³ /h	55m	2"	2m	< 430V	≥ 1.3*Pump Power
4SPE16-30DA300V-H	85V-280V	80V-430V	2200W	22.0m ³ /h	70m	2"	2m	< 430V	≥ 1.3*Pump Power

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Performance Curve - 4SSE



Performance Table

Pump Model	Voltage	Optimum Input Voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar Panel	
								Open Circuit Voltage (VOC)	Power
4SSE3-10D72V	72V	90V-120V	750W	5.2m³/h	67m	1.25"	2m	< 160V	≥ 1.3*Pump Power
4SSE3-10DA110V	85V-280V	80V-430V	750W	5.2m³/h	67m	1.25"	2m	< 430V	≥ 1.3*Pump Power
4SSE3-15D72V	72V	90V-120V	1100W	5.2m³/h	101m	1.25"	2m	< 160V	≥ 1.3*Pump Power
4SSE3-15DA150V	85V-280V	80V-430V	1100W	5.2m³/h	101m	1.25"	2m	< 430	≥ 1.3*Pump Power
4SSE8-20D110V	110V	110V-150V	1500W	11.0m³/h	60m	2"	2m	< 210V	≥ 1.3*Pump Power
4SSE8-20DA200V	85V-280V	80V-430V	1500W	11.0m³/h	60m	2"	2m	< 430V	≥ 1.3*Pump Power
4SSE16-20D110V	110V	110V-150V	1500W	19.0m³/h	35m	2"	2m	< 210V	≥ 1.3*Pump Power
4SSE16-20DA200V	85V-280V	80V-430V	1500W	19.0m³/h	35m	2"	2m	< 430	≥ 1.3*Pump Power

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