

EXTENDED SQFLEX SOLAR POWERED SUBMERSIBLE PUMP RANGE

The Grundfos SQFlex AC/DC powered submersible pump range now includes high-speed models to ensure even better coverage of your solar-powered water pumping needs.

Designed with over 75 years of pump experience and over 40 years of solar technology expertise, the SQFlex is built with proven technology for reliable operation.

Versatile product applications:

- Off-grid water supply
- Livestock watering
- Water supply for homes and communities
- Crop watering

Designed for your needs:

The SQFlex range is compatible with solar, wind or combination systems, and is available in three configurations – 5 helical rotor models (3" diameter), 5 centrifugal models (3" diameter) and 6 centrifugal

models (4" diameter). With centrifugal and positive displacement models available, Grundfos offers the best range of solutions for the most challenging applications.

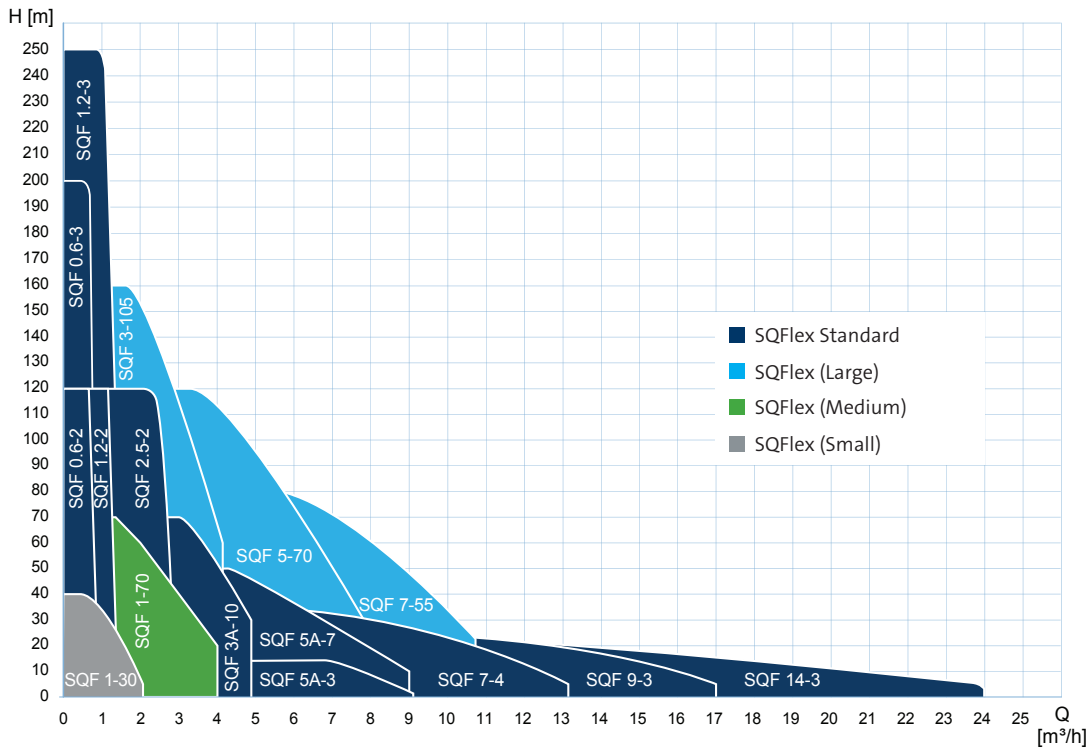
- AC/DC power inverter with a universal connection (not polarity specific), built directly into the pump
- Capable of tolerating the widest incoming voltage range on the market (30-300 VDC | 90-240 VAC)
- High-efficiency PM/BLDC motor
- AISI stainless steel 304 and 316 construction options with sacrificial anode available
- Virtually no maintenance
- Integrated dry run and motor protection
- Reliable and proven water supply technology

TECHNICAL SPECIFICATIONS

Max. flow rate:	18 m ³ /h (90 m ³ /day) 79 gpm
Max. head:	250 m 820 ft
Liquid temperature:	0°C to +40°C 32°F to 104°F
Max. submergence depth below static water level:	152 m 500 ft
Voltage range:	30 to 300 VDC (100 to 300 VDC for SQF3-105, SQF 5-70, SQF 7-55), 1x90-240 VAC, 50/60 Hz
Max current:	12 A
Pump enclosure class:	IP68



PERFORMANCE CURVES



SYSTEM CONTROLS



SC 212

SC 212 is an in-built programmed device, designed and developed exclusively for SQFlex pumps, which are mostly used in solar based water supply systems.

Benefits

- IP65 enclosure suitable for outdoor installation and is weather-proof
- It is suitable for continuous as well as intermittent operations
- Auto and Manual operation
- LED indication for Pump status and alarm

Technical data

- Power Size: 1.4Kw
- Voltage Range: DC and Single-Phase input
- Enclosure class: IP65
- Ambient Temperature: -10°C to 55°C



SC 419PC

SC 419PC is an efficient way to monitor and control the large SQFlex solar pump installations online with our internet-based solution, user will get reliable performance data from the pump installation in real-time.

Benefits

- IP65 enclosure suitable for outdoor installation and is weather-proof
- Auto and Manual operation
- Remote monitoring connectivity
- LED indication for Pump status and alarm
- RS 485 Modbus RTU data communication

Technical data

- Power Size: 2.4Kw
- Voltage Range: DC and Single-Phase input
- Enclosure class: IP65
- Ambient Temperature: -10°C to 55°C

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