

1. SQF submersible pump
2. Submersible drop cable
3. Cable clips
4. Straining wire
5. Wire clamps
6. Solar panels
7. Support structure
8. Wind turbine
9. IO 102 SQFlex breaker box

### APPLICATION

The SQFlex is a 3" solar pump designed for continuous operation with the motor developed specifically for the SQFlex system and is designed according to the permanent-magnet principle with built-in electronic unit.

### CONSTRUCTION FEATURES

- MSF 3 motor with maximum power input (P1) of 1400W and speed range of 500 - 3600 min<sup>-1</sup>, depending on power input and load.
- Maximum power input(P1) of 1400 W
- Maximum current of 8.4 A

**SUPPLY VOLTAGE** •Either DC or AC      •30-300 VDC, PE      •1x90-240V-10%/+6%/50/60Hz, PE.

**CU 200 CONTROL UNIT:** The CU 200 is a combined status and control unit for the SQFlex pump system. It enables connection of a level switch placed in a water reservoir or tank.

**IO 50 SWITCH BOX:** The IO 50 is an on/off switch box designed for switching the power supply on and off

**IO 101 SQFlex SWITCH BOX:** The IO 101 is an on/off switch used in solar-powered SQFlex systems with a back-up generator.

**IO 102 SQFlex BREAKER BOX:** The IO 102 is an on/off breaker box used in wind-powered systems making it possible to slow down or stop the wind turbine.

**CHARGE CONTROLLER:** The charge controller is used when a battery backup system is installed with an SQFlex pumping system.

**SOLAR MODULES:** The number of solar modules depends on:

- quantity of water required
- head required
- installation location.

### GENERATOR

In case the power supply from its primary source of energy is temporarily insufficient or unavailable, the SQFlex system can be powered by a generator.

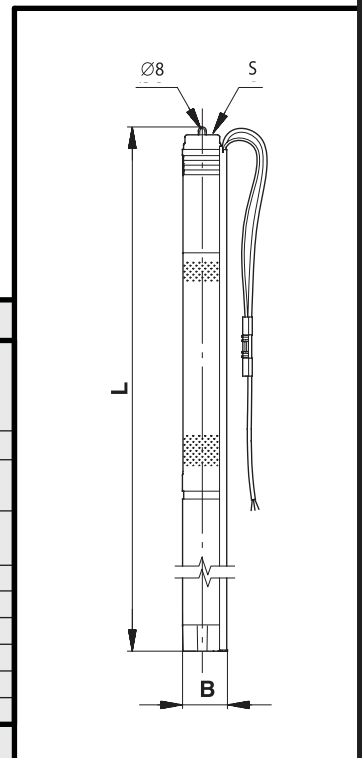
### BATTERIES

The SQFlex system can be powered by batteries with a voltage supply of 30-300 VDC

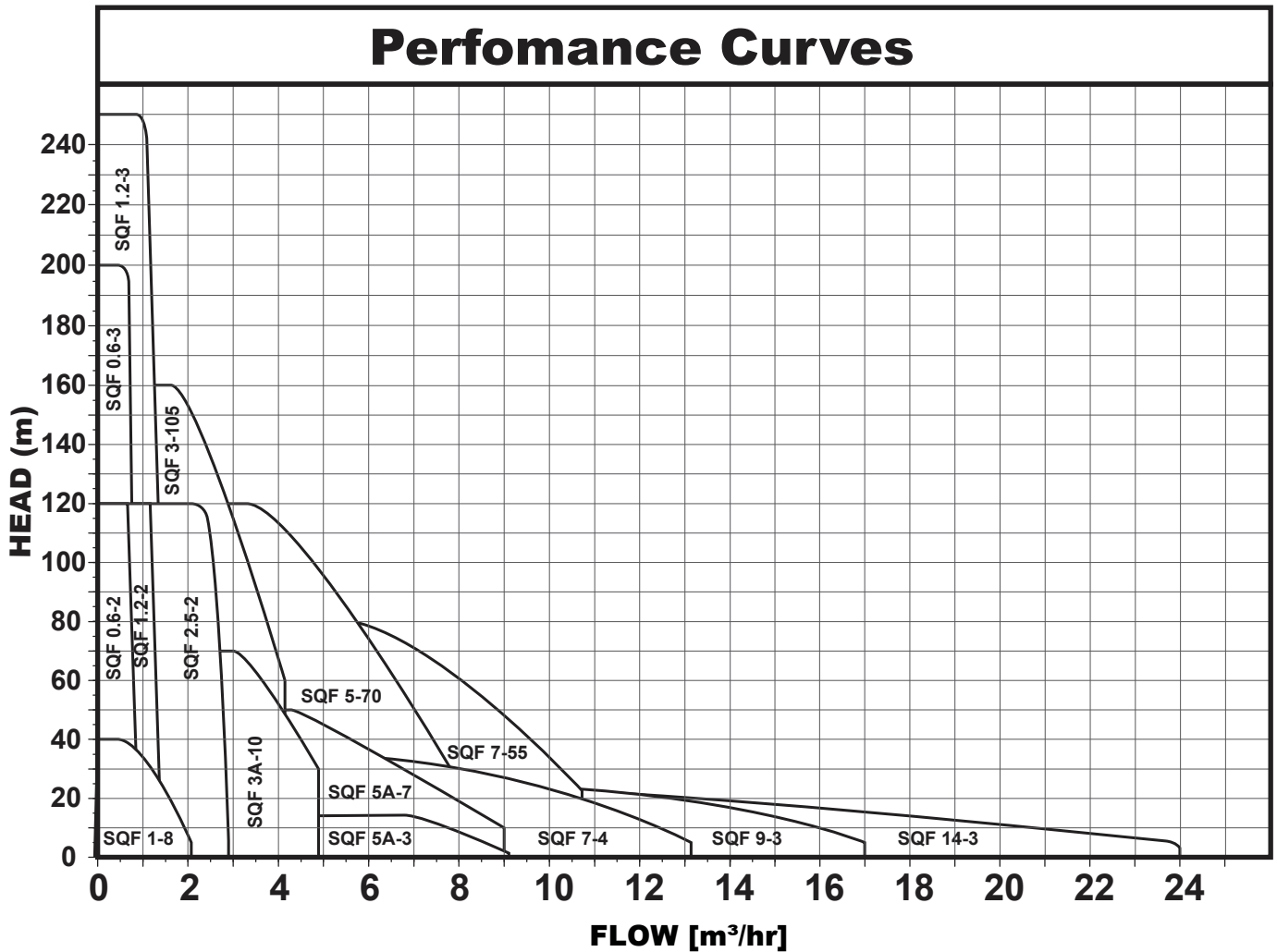
### TECHNICAL DATA

Pump type	Maximum power input P1 [W]	Maximum current [A]	Dimensions [mm]			Net weight [kg]*
			L	B	S	
SQF 0.6-2	1400	8.4	1185*	74	1 1/4	7.6
SQF 0.6-3			1235*			7.9
SQF 1.2-2			1225*			8.2
SQF 1.2-3			1295*			9.5
SQF 2.5-2			1247*			8.1
SQF 3A-10			968			8.8
SQF 5A-3			821	101	1 1/2	11.0
SQF 5A-7			905			10.6
SQF 7-4			927			11.2
SQF 9-3			1011			
SQF 14-3			982			

\* Pump complete

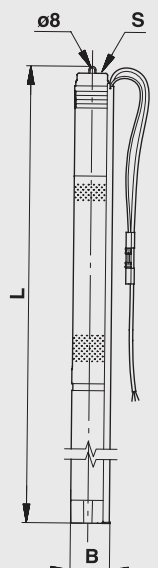


### Performance Curves

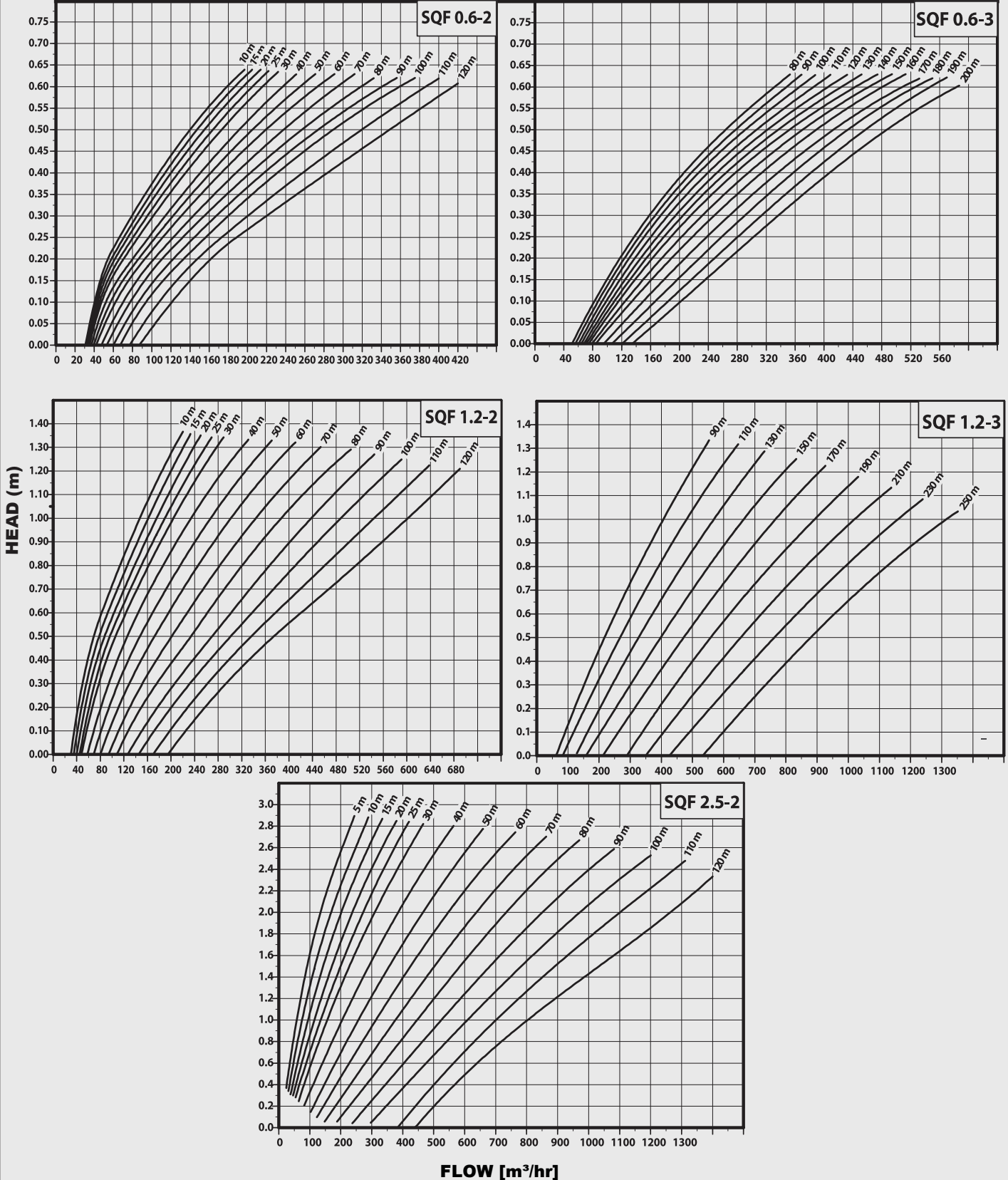


#### TECHNICAL DATA

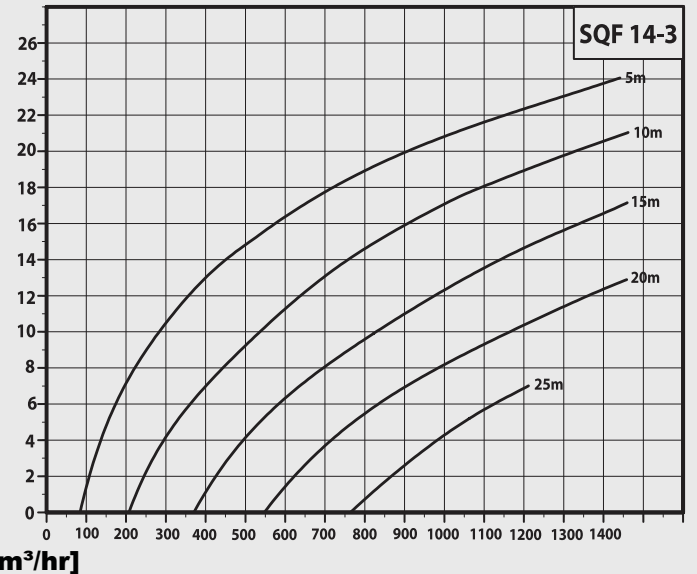
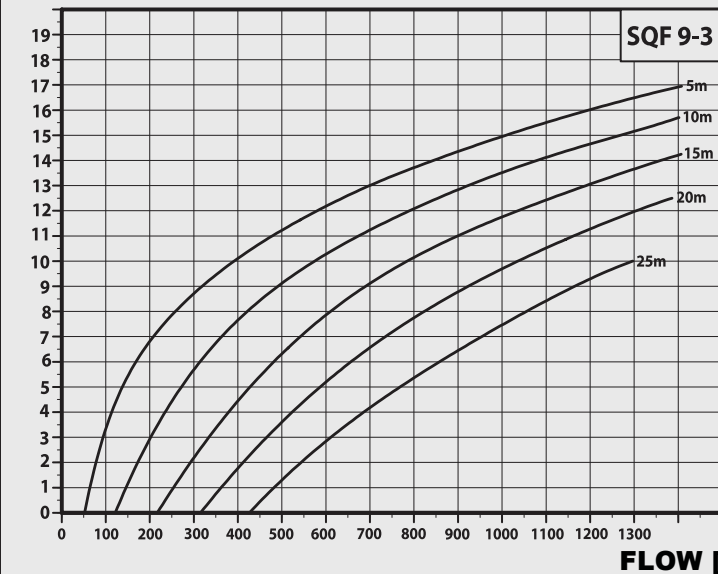
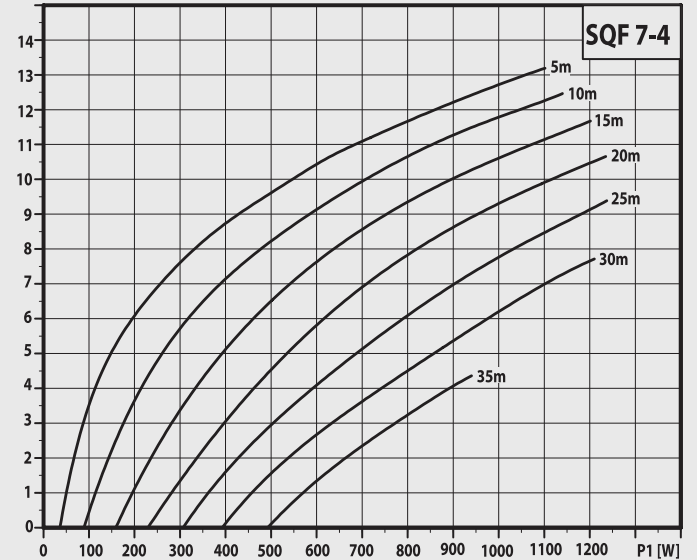
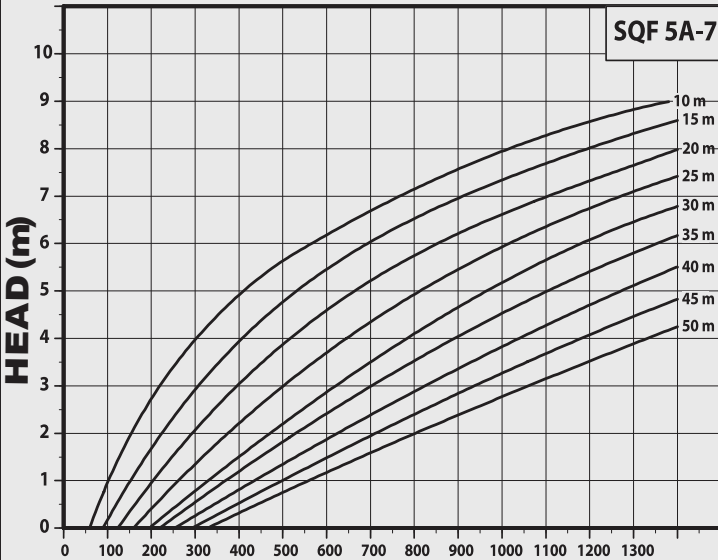
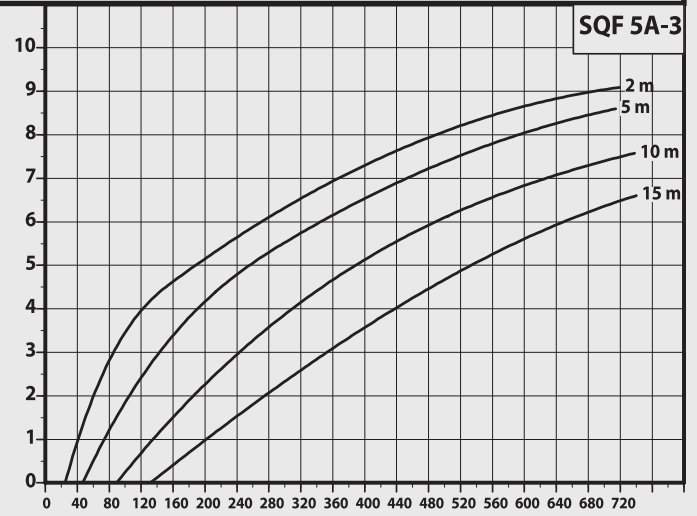
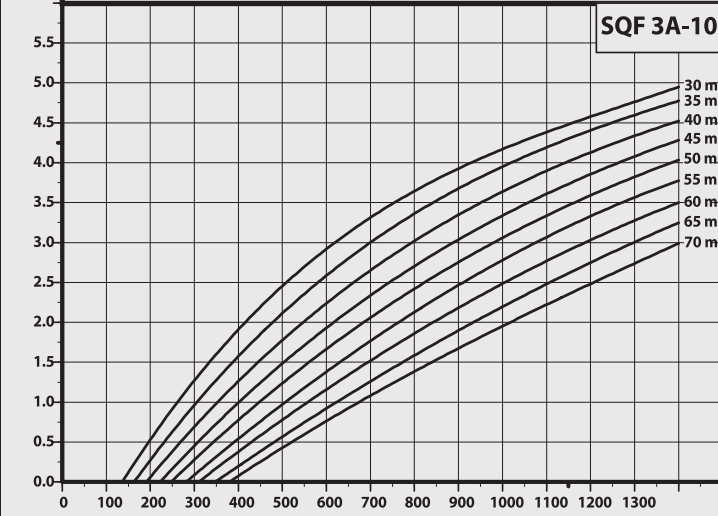
MODEL	Max Flow [m3/hr]	Max Head [m]	Max Power [W]	Max Current [A]	Dimensions(mm)			NET WEIGHT [KG]
					L	B	S	
SQF0.6-2	0.65	120	1400	8.4	1185	74	1 1/4	7.6
SQF0.6-3	0.63	200			1235			7.9
SQF1.2-2	1.35	120			1225			8.2
SQF1.2-3	1.33	250			1295			9.5
SQF2.5-2	2.8	120			1247			
SQF3-10	4.9	70			968			
SQF3-105	4.1	160	2500					
SQF5-3	9	15	1400	8.4	821	101	1 1/2	8.1
SQF5-7		50			905			8.8
SQF5-70	7.8	120	2500					
SQF7-4	13	35	1400		927	101		11
SQF7-55	10.5	80	2500					
SQF9-3	17	25	1400	8.4	1011	101	2	10.6
SQF14-3	24				982			11.2



**Performance Curves**



**Performance curves**



**FLOW [m³/hr]**