



PUMP

GRUNDFOS SP Solar systems are carefully selected SP pumps with Solar Controllers specially designed for borehole applications. They are of multistage centrifugal impeller design with all parts made from stainless steel and water lubricated rubber bearings. All SP pumps carry drinking water approval. A submersible motor is fitted beneath the pump and suction is effected through a strainer between pump and motor. Output estimations are strictly indicative and more accurate projections are available using manufacturers data when the exact site location and installation arrangement is defined.

CONTROLLER

The SPC controller supplied with SP Solar package is carefully matched to the pump to enable hybrid power inputs from both PV solar and mains supply. The motors can be powered by either DC or AC input within the range of 220-800V DC and 400V, 3 phase 50Hz AC. The integral control module uses MPPT technology that continuously optimises output frequency to maximize system efficiency and protects against over and under voltage (except lightning), electrical overload and over temperature. Dry running protection is provided by sensorless load detection and remote monitoring can be achieved using a paired communicator.

MOTOR

The SP Solar pump is supplied with a matched premium efficiency permanent magnet motor. The high efficiency ensures earlier start and better performance in cloudy conditions thus generally increasing the water output and is sustained even with partial loading. The permanent magnet rotor generates less heat allowing for higher liquid temperatures of upto 60°. Though optimised for solar applications, the SP Solar pump can also be used in applications requiring automatic change over to mains operations without change of controller.

Enclosure Class: IP68

Controller: IP65

Speed: 4200 rpm

PUMP DATA

Model	Motor		Current (A)	Dimensions (mm)					Weight (kg)
	kW	HP		A	B	C	E	Rp	
SP 5A-14	3.7	5	10.9	986	539	447	101	1½	26
SP 7-15	5.5	7.5	15.8	1593	605	988		2	39
SP 9-6	3.7	5	10.9	1077	539	538			28
SP 9-8	5.5	7.5	15.8	1243	605	638	101		35
SP 14-8			16	1443	605	838			37

CONTROLLER DATA

Model	Motor (kW)	Dimensions (mm)					Weight (kg)
		H1	W1	D	H2	W2	
GI SPC 37	3.7	454	360	155	184	260	45
GI SPC 55	5.5						

