

THE RENEWABLE SOLAR INVERTER (RSI) SYSTEM

Grundfos has sourced the RSI off-grid solar inverter to enable us to expand the family of solar submersible pumping systems. The RSI is designed specifically to be compatible with a wide range of the famously reliable SP submersible pumps.

This has created a modular system that allows maximum components flexibility with the easiest maintenance. The SP pump can be customised to fit closely the particular application, and a range of material variants ensure top reliability, even in corrosive environments. Grundfos offers global service on all SP pumps.

Benefit from a solar submersible SP solution
Adding the RSI to your SP application offers tangible benefits, protecting the water source and ensuring water supply, even with intermittent operation.

- > Convert power from DC to 3 phase 380 VAC
- > MPPT software – the inverter will continuous optimize the output frequency based on the available input power to constantly deliver maximum system efficiency
- > Automatic recovery from operation signal stop
- > Adjustable operation parameters
- > Display historical operation data

- > Built-in system protection for:
 - Over- or under-voltage protection
 - Over current and overload protection
 - Over-temperature (of Inverter) protection
- > Fault detection with error code display
- > Multiple sensor input

Use on any existing SP installation
The RSI can be used in any existing SP pump application, so there is a very wide range of applications. The only difference is that you use solar panels as the power supply.



The Renewable Solar Inverter (RSI) is an off-grid solar inverter with MPPT and fault protection which is easy to operate and can be paired with an SP pump for a larger performance range, greater versatility and for many different applications.

	Grundfos Product Name	RSI 3000	RSI 4000	RSI 5500	RSI 9200
Installation	Ambient Temperature	-10 to 50 °C	-10 to 50 °C	-10 to 50 °C	-10 to 50 °C
	Relative Humidity	0 to 95 %	0 to 95 %	0 to 95 %	0 to 95 %
Electrical	P1, Motor (max.) kW	3	4	5.5	9.2
	Recommended MPP Voltage	530 to 600	530 to 600	530 to 600	530 to 600
	Input DC Voltage, max	750	750	750	750
	Input DC Current per set, max	15	15	15	15
	Frequency, Hz	30 to 53	30 to 53	30 to 53	30 to 53
	Rated Output Voltage, AC	3 x 380 V	3 x 380 V	3 x 380 V	3 x 380 V
	Rated Output Current, AC	9	13	18	24
Others	Enclosure class	IP41	IP41	IP41	IP41
	Net Weight, kg	7.2	7.3	7.7	8.2
Packing	Gross Weight, kg	9.5	9.6	10	10.5
	Length, mm	355	425	425	425
	Width, mm	280	325	325	325
	Height, mm	225	285	285	285