



**SUND**

THE  
SOLAR  
POOL PUMP

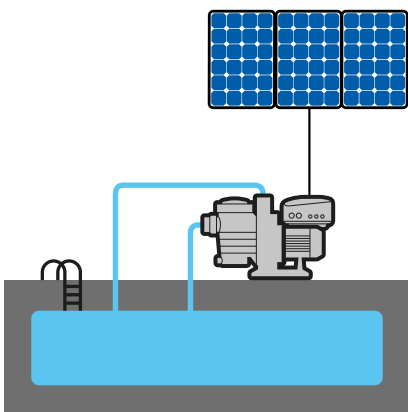


**NASTEC**<sup>®</sup>  
> we move it faster >

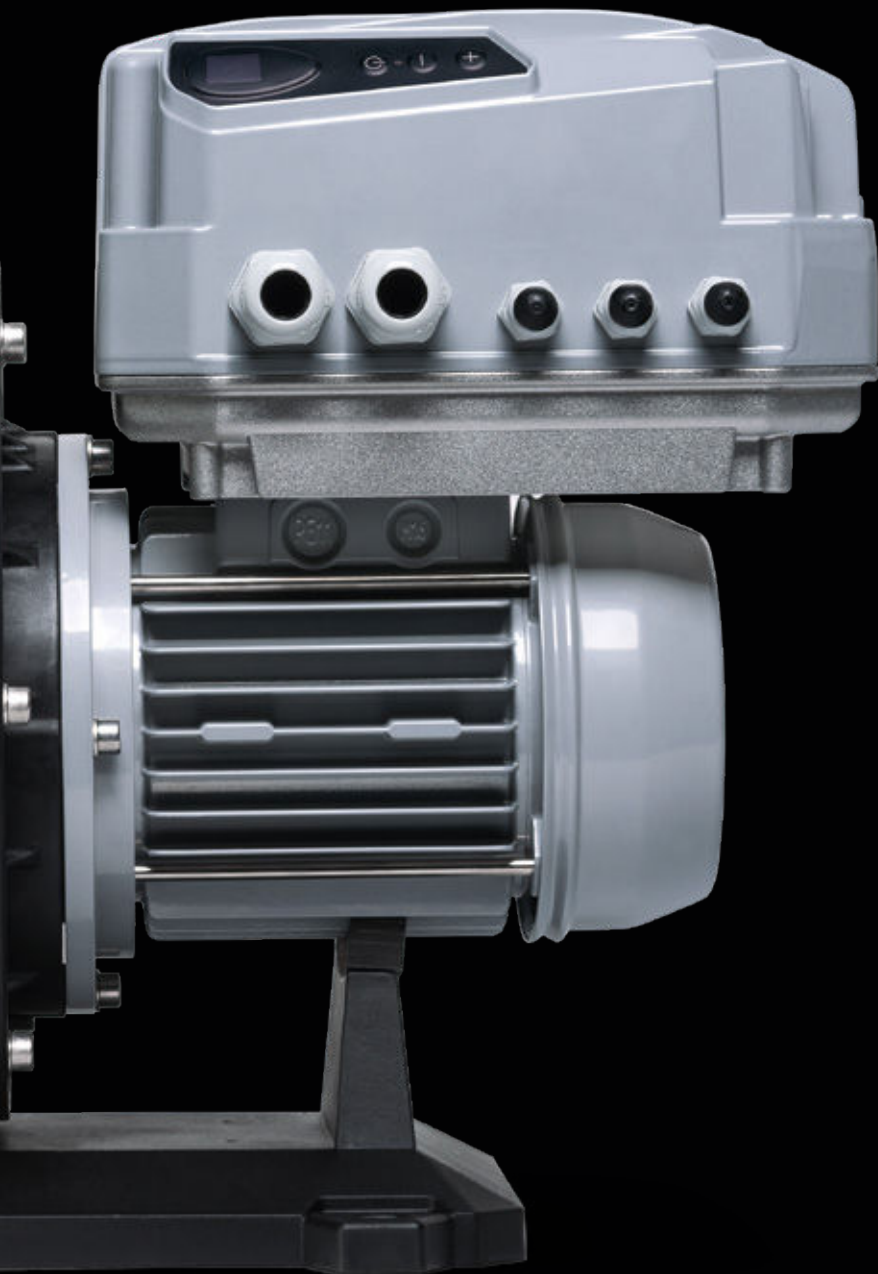
# SUND IS THE NASTEC RANGE OF SOLAR PUMPS FOR THE CIRCULATION AND FILTERING OF POOL WATER.

It guarantees:

- Energy saving thanks to photovoltaic energy supply and variable-speed operation.
- Quick return on investment.
- Lengthening of system life and greater system reliability.
- Quick and simplified installation thanks to the electronics integrated into the motor and smartphone control.
- Extremely low noise operation.
- Installation in humid and dusty environments thanks to IP55 (NEMA 4) protection rating.



# SUND IS POWERED BY SOLAR PANELS OR, IF NECESSARY, BY MAINS SUPPLY.

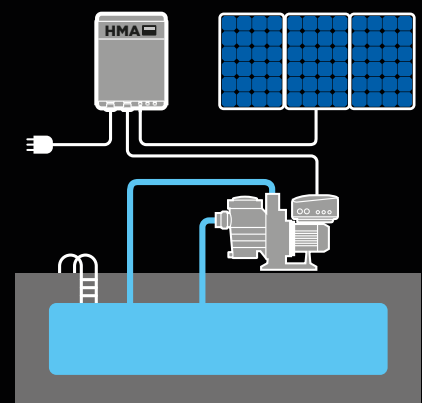


In this way, the pump's operation is guaranteed at any time of day.

It is also possible to meet demand peaks through mains power in order to avoid the over-dimensioning of the photovoltaic system.

When installed, the HMA accessory automatically manages the switch from one source of energy to the other based on multiple logics that the user can select:

- radiation level
- time of day
- achievement of the daily flow requirement
- remote control via digital input.





High-performance **hydraulic part** with rapid extraction inlet pre-filter.

Carbon-ceramic mechanical seal.

Pump body, impeller and diffuser in reinforced technopolymer.

Transparent polycarbonate filter cover.

Inlet and outlet connections to attach for PVC tubes with an external diameter of 50 mm.

Guaranteed operation with sea salt water.



## EMC COMPATIBILITY FOR RESIDENTIAL ENVIRONMENT:

- Integrated PFC (P.F. 1) to meet EN61000-3-2
- Integrated input filter for Category C1 (EN61800-3), Class B (EN55011)

## BUILT-IN PROTECTIONS AGAINST:

- Overvoltage and undervoltage.
- Overcurrent and no load.
- Dry running.
- Overtemperature.



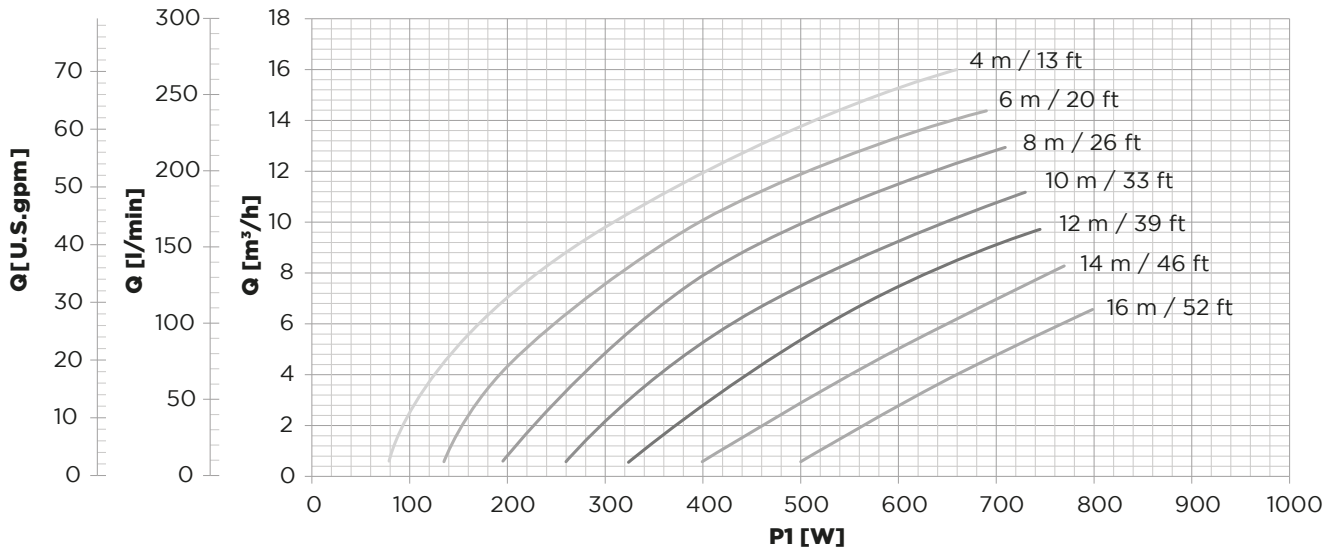
**Integrated inverter** attached to the motor, exclusively in aluminium, and with independent ventilation to guarantee excellent thermal performance.



**Synchronous three-phase motor** with highly efficient permanent magnets.

# TECHNICAL SPECIFICATIONS

Model	Vin DC VDC	Vin AC VAC	P1 max W	Net weight kg	Packing dimensions mm	Total weight kg
SUND 50	90 - 400	1 x 90 - 265	800	10,7	535x240x350(h)	11,4

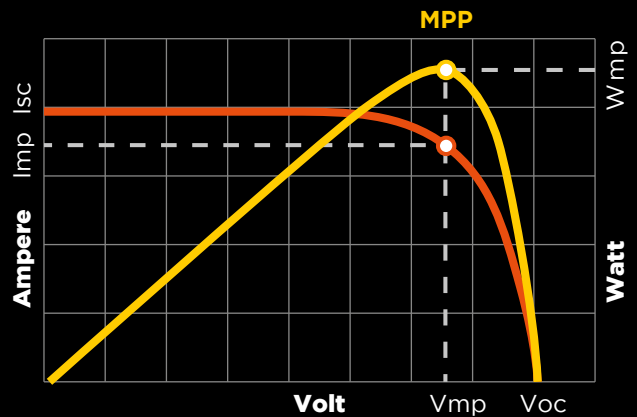


## MPPT: ALWAYS THE MAXIMUM POWER AVAILABLE

Based on the varying conditions of solar irradiation and temperature, MPPT (Maximum Power Point Tracking) maximises the electrical power drawn from the panels and therefore the amount of water pumped.

The greater the solar irradiation the faster the pump's rotation speed, and consequently water flow increases.

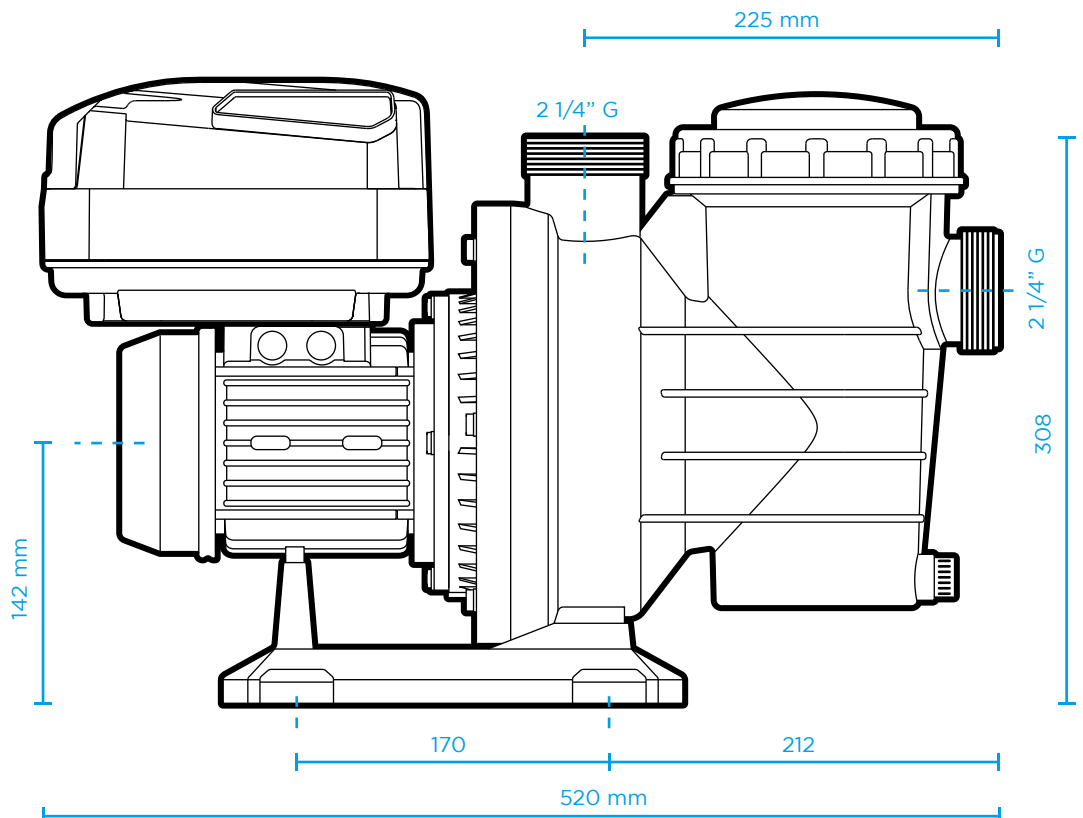
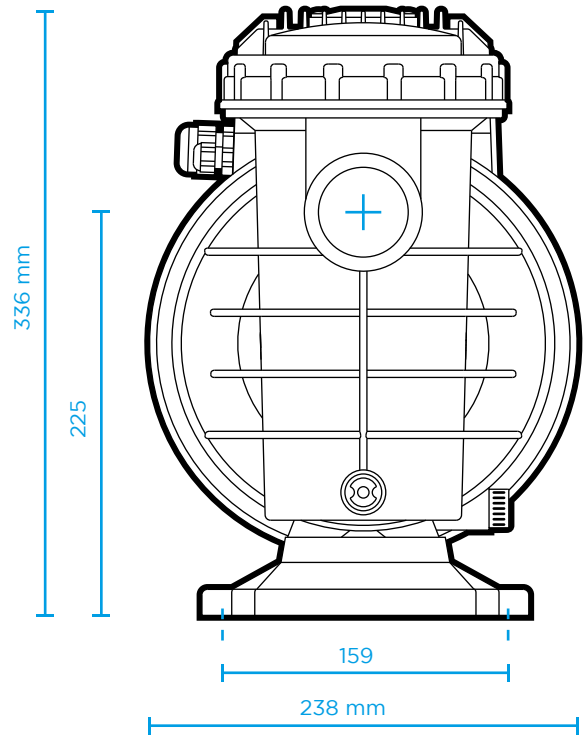
When solar irradiation decreases (due to clouds or the different times of day), the pump reduces frequency and therefore the flow, but it continues to provide water until the irradiation falls below a minimum level necessary to ensure operation.



# GENERAL CHARACTERISTICS

- Rated frequency: 50 - 60 Hz (+/- 2%)
- EMC Compliance: EN61800-3 C2 (C1 for MIDA Solar 203, 205, 207)
- Energy efficiency class (EN61800-9-2): IE2
- Relative humidity of the working environment: 5 - 95% non-condensing
- Working ambient temperature: from -10 °C (14 °F) to 60 °C (140 °F)
- Maximum working ambient temperature at full load: 50°C (122 °F)
- Maximum altitude at rated current: 1000 m
- Vibration resistance: EN60068-2-6:2008, EN60068-2-27:2009, EN60068-2-64:2008
- Protection degree: IP66 (NEMA 4X)
- Settable digital outputs N.O. or N.C:
  1. Motor run signal
  2. Alarm signal
- Analog inputs (10 or 15 VDC):
 

1. 4-20 mA	3. 0 - 10 VDC
2. 4-20 mA	4. 0 - 10 VDC
- 4 digital inputs, configurable N.O. or N.C. for motor run/stop.
- RS485 MODBUS RTU, BACnet Bluetooth® SMART



# nastec.eu



*We were born in 2007 with over 30 years of previous experience in water pumps.*

*We develop products dedicated to specific applications. We don't claim to do everything, but we strive to do the best at what we do.*

*We pay attention to details.*

*We love manufacturing and encourage every form of repair. That's why we offer spare parts.*

*We update our products while maintaining compatibility with the past.*

*We support our customers always and by every possible means.*

*We are global in sales but local in assistance.*

*Our mission? To make pumping systems intelligent, efficient, and connected.*

**Nastec srl**

Via della Tecnica 8  
36048 Barbarano Mossano  
Vicenza - Italy

tel +39 0444 886289

fax +39 0444 776099

info@nastec.eu



> we move it faster >



GR000921\_rev10 01.2025

Nastec reserves the right to modify the technical features contained in this document without notice.