

# REMORAN WAVE 3

Remoran Wave 3 generates electricity for a sailboat's batteries and devices while sailing. Power production varies according to the sailing speed, the maximum being 300 Watts at 10 knots or at 12 knots of speed depending on the product variant. The device is easy to install and use. Remoran Wave 3 is designed and manufactured in Finland. The product is emission free and ecological.

## PRODUCT VARIANTS

### Remoran Wave 3 GS

Length of generator unit:	680 - 980 mm
Weight of generator unit:	7,5 Kg
Maximum operating speed:	12 knots*
Optimal speedrange:	3-10 knots

*\*Remoran Charger 300W can be damaged if used at greater speeds, unless the PR-01 protection relay is installed.*

### Remoran Wave 3 GD

Length of generator unit:	680 - 980 mm
Weight of generator unit:	7,5 Kg
Maximum operating speed:	20 knots*
Optimal speedrange:	5-15 knots

*\*Remoran Charger 300W can be damaged if used at greater speeds, unless the PR-01 protection relay is installed.*



### Sales package

- 1 pc Hydrogenerator outboard unit, including 2 meters of cable and female connector
- 1 pc Installation accessories kit
- 1 pc Three-bladed turbine
- 1 pc Remoran Charger 300W electronic charger
- 1 pc Mounting rail (20 cm)
- 1 pc Three-phase AC cable with a male connector
- 1 pc Ferrite filter
- 1 pc Installation instructions

# REMORAN CHARGER 300W

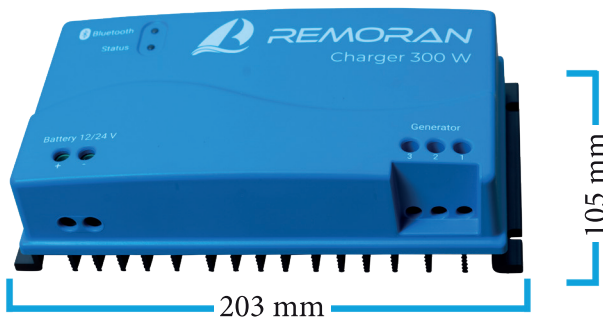
Our custom intelligent charger is designed to work perfectly together with our generator. The charger is an essential part of an optimally working Remoran Wave 3 installation. It is always included in our sales package.

## Electrical properties:

Maximum allowed input voltage:	35 VAC (3-phase)
Output voltage:	12V/24V
Output current:	max 25A
Output power:	max 300W
Power consumption on standby mode:	20mA
Operating temperature range:	-10°C - +55°C
Compatible batteries:	Pb, AGM, Lithium
Collection of charging data:	Power, temperature, RPM, etc..
Bluetooth connection type:	Bluetooth Low Energy (BLE)

## Mechanical properties:

Dimensions:	53 x 203 x 105 mm
Weight:	620g



- Converts 3-phase AC electricity from the generator to DC voltage suitable for batteries
- Automatic battery voltage detection (12V/24V)
- Smart charging with battery maintenance algorithm
- LED indicators for charging states and error reporting
- Collects information about the charging process viewable using our mobile app
- Bluetooth® connection to your mobile device

## Certificates

- International Registered Community Design for its unique innovative design in USA, EU, Norway, Canada, Switzerland and Australia.
- CE certification for Electrical/RF emissions.
- USA/CAN FCC/ICES certification Electrical/RF emissions.

# CHARGING PERFORMANCE

These tables indicate charging performance at various speeds. Please note that while the Current (Amps value) differs depending on the voltage of the system, the charging Power (Watts) will be equal.

## GS Variant

Speed	Power	Current @12V	Current @24V
4 kn	50 W	4 A	2 A
6 kn	150 W	12 A	6 A
8 kn	230 W	20 A	10 A
10 kn	300 W	25 A	12,5 A
12 kn	300 W	25 A	12,5 A
14...20 kn	-	-	-

## GD Variant

Speed	Power	Current @12V	Current @24V
4 kn	0 W	0 A	0 A
6 kn	80 W	7 A	3,5 A
8 kn	150 W	12 A	6 A
10 kn	240 W	20 A	10 A
12 kn	300 W	25 A	12,5 A
14...20 kn	300 W	25 A	12,5 A