

# Technical specifications

## Aluminium frame

Pre-assembled frame

## 3x solar panels 195Wp

Solar cell: Monocrystalline cell

Rated Power (Pmax): 195Wp

Weight: 16 kg

Connectors IP67

Size: 1580x808x35mm

## 1 x 24 volt lithium lifepo4 battery

24 volt

Capacity: 40 Ah

Weight: 15kg

## 3 x aluminum framed polyethylene buoy

Material: Rotationally-moulded UV-stabilized HDPE polyethylene

Filling: Closed-cell polyurethane foam

Buoy frame: Anodized aluminum

Weight: 15 kg

Size: 1200x600x200mm

Buoyancy capacity 95 kg

## Data acquisition system

Configurable time interval (default: 15 min)

4 x analog channel  
(user-configurable for either 4-20mA,)  
1 x RS485 port for instruments  
1 x high frequency pulse counting channel  
1 SDI-12 input  
3X RS232

## Water quality sensor package

### Fluorescence, including anti-fouling Wiper: chlorophyll a, phycocyanin, turbidity

470nm – Chlorophyll a  
610nm – Phycocyanin  
685nm – Turbidity

### Redox

Combined electrode  
(Redox/reference) :  
Platinum tip, Ag/AgCl  
AgAgCl.  
Gelled reference (KCl)  
Range - 1000 to + 1000 mV  
Resolution 0,1 mV  
Accuracy  $\pm 2$  mV

### pH

Combined electrode  
(pH/ref):  
special glass, Ag/AgCl ref.  
Gelled electrolyte (KCl)  
Range 0 – 14 pH  
Resolution 0,01 pH  
Accuracy  $\pm 0,1$  pH

### Temperature

Technology CTN  
Range 0.00 °C à + 50.00°C  
Resolution 0,01 °C  
Accuracy  $\pm 0,5$  °C  
Response time < 5 s

### Dissolved Oxygen

Optical measure by  
luminescence  
Measure ranges:  
0.00 to 20.00 mg/L  
0.00 to 20.00 ppm  
0-200%

## 4 x LG Sonic® e-line XXL algae control treatment (360°)

Remote selection of ultrasonic program

Number of ultrasonic programs: Unlimited

Remotely customize ultrasonic program

Ultrasonic range: up to 80 frequencies

Different programs per transmitter

Automatic Aquawiper to clean transducer surface

## Telemetry

GPRS Telemetry  
Quadband (850/ 900 /  
1800 / 1900 MHz )  
CDMA optional

Radio (UHF/VHF)

## Solar Charge Controller

Overcharge and Deep  
discharge protection

Ip68 Protection



Total weight:  
160 kg

Top view →  
← Side view

