



**TECHNICAL SPECIFICATION  
PROPULSION SYSTEM  
FOR  
ARCONA 380Z**

**OCEANVOLT LTD**

**9 / 2014**



## TECHNICAL SPECIFICATIONS

### 1. Propulsion System

#### SD15 kW motor

Power	15 kW
Speed	2200 rpm
Reduction ratio	1.93:1
Nominal battery voltage	48 V (operating 42-60V)
Weight (motor + saildrive)	49 kg
Sevcon Motor controller	



#### The product conforms with the following provisions

Small water vehicles

Electrical systems

Low-voltage direct current (DC) systems DIN EN ISO 10133:2000

Oceanvolt products are CE-certified and EMC-tested for zero radio disturbance EN5012(2007), EN61000-6-2(2005)

#### Battery bank Valence U27-12XP Li-Ion with Battery Management System:

12 modules for 21 kWh capacity

Module weight	19,5 kg / 1 unit
Module dimensions	306 x 173 x 225 mm (LWH)
Module battery voltage	12,8 V (4 in series for 48VDC nominal)
Module energy capacity	1766 Wh



#### Victron Multiplus Charger/Inverter 48 VDC/3000/35

Weight	18 kg
Continuous power	3 kW
Peak power	6 kW
Dimensions	362 x 258 x 212 mm (LWH)





# Oceanvolt propulsion system

## Propulsion System

Oceanvolt SD15

- 15 kW motor
- Saildrive
- Motor Controller
- Cables to standard length
- Assembly flange
- Display
- Throttle Lever
- Propeller Flex-o-fold 2 b 17x11

## Battery system

### 12 V power system for navigation, lights, BMS

12 V Li-ion battery module intl BMS	Valence RT 40Ah 1 x U1-12RT
alternatively 12 V battery module	Lead acid or AGM 65 - 100 Ah

### 48 V power system for propulsion

48 V battery package including BMS	Valence 21kWh 12 x U27-12XP
230V Inverter/ 48 and 12V Li-ion charger	VE Multiplus 48/3000/35-16
Shore power ampere control panel	VE Multicontrol
DC/DC 48/12V charger/converter	VE Orion 360W 15A ISO

