

## 1.3 Specifications

<b>SPIRIT 1.0 Plus-L/ SPIRIT 1.0 Plus-S / SPIRIT 1.0 Plus-XS</b>	
Type	Electric
Rated Input Power	1 kW
Rated Current	20.8 A
Comparable Petrol Outboard	3 hp
Maximum Overall Efficiency	55%
Maximum Rotation Speed	1200 rpm
Steering	Tiller control
Weight (without battery)	10.4 kg / 22.9 lbs. (XS) 10.6 kg / 23.4 lbs. (S) 10.8 kg / 23.8 lbs. (L)
Dimension (L×W×H)	884 mm × 275 mm × 942 mm (XS) / 1042 mm (S) / 1167 mm (L) 34.8" × 10.8" × 37.1" (XS) / 41" (S) / 45.9" (L)
Shaft Length	525 mm / 20.7" (XS) 625 mm / 24.6" (S) 750 mm / 29.5" (L)
Trim Angle	0°, 7°, 14°, 21°, 70°
Propeller (Diameter / Pitch)	280 mm / 5.8"

**SPIRIT Battery Plus**


Type	Lithium-Polymer
Rated Capacity	1276 Wh
Rated Voltage	45.6 V
Cut-off Voltage	33.6 V
Full Charged Voltage	52.2 V
Charging Time	~8 hrs
Cycle Life	≥500 cycles (80% of Rated Capacity)
Temperature Range	Charging: 0°C ~ 45°C (32°F ~ 113°F) Discharging: -20°C ~ 60°C (-4°F ~ 140°F)
Dimension (L×W×H)	416 mm × 275 mm × 202 mm
Weight	8.8 kg / 19.4 lbs.


**External Battery Requirement**

Type	Lead-acid Battery or Lithium Battery
Rated Voltage	48 V
Minimum Voltage	39 V
Maximum Voltage	60 V
Minimum Continuous Discharge Current	28 A
Internal Resistance	<100 mΩ

## SPIRIT 1.0 Plus Charger

Output Power	180 W
Output Voltage	52.2 V DC
Output Current	3.5 A
Cut-off Current	0.4 A
Temperature Range	Operation: -10°C ~ 45°C (14°F ~ 113°F) Storage: -30°C ~ 70°C (-22°F ~ 158°F)
Rated Input Voltage	100 ~ 264 V AC
Output Frequency	50 Hz / 60 Hz
Input Current (Max)	2 A @ 220 V
Efficiency	≤87%

 It is forbidden to charge other batteries with SPIRIT charger. It is strictly forbidden to charge SPIRIT battery with non-official standard charger.

 SPIRIT battery plus, SPIRIT 1.0 Plus machine and SPIRIT 1.0 Plus charger should be used together. It is forbidden to use SPIRIT battery plus and SPIRIT 1.0 Plus charger for SPIRIT 1.0 Plus machine, and it is forbidden to use SPIRIT battery for SPIRIT 1.0 Plus machine. Otherwise, the consequences of mixed use is at your charge.