

Torqueedo Ultralight 402

The kayak motor

The ultimate tool for kayak fishermen – or any paddler who wants to keep moving while taking a rest.

This is how we define superior technology for kayakers:

- Weight of 15 lbs, that is of course including the battery
- Motor power equivalent to 1 HP gasoline outboard
- Top speed above 6 mph, faster than any trolling motor on the market
- Range at slow speed (e.g. 2.5 mph) up to 19 miles
- Fully waterproof system

- GPS based calculation of remaining range
- Mountable to most rigid hull kayaks

If you find anything in the world that even comes close, let us know.



1 hp



28,8 V (integrated)



15.4 lbs



2-year limited warranty



1 Mounting ball attaches onto the top of the kayak. Ball-and-socket joint adapts to different kayak shapes. Only the small mounting ball is fixed permanently to the boat, the motor with all the other parts can be easily removed when not needed.

2 Extremely high-efficient drive train, performance comparable with 1 hp gas outboard.

3 Auto kick-up feature to protect from grounding.

4 Attachment point for a line to manually tilt the motor.

5 Attachment point for the “reverse drive” line (only necessary to reverse).

6 Connection to kayak steering / steering lock mechanism.

7 Lithium-manganese high-performance battery with integrated GPS-receiver.

8 Remote throttle control with magnetic on/off key and information display (for photo, see page 9, bottom).

9 The gauge on the remote throttle displays: battery charge status, remaining range at current speed, speed over ground and current power consumption in watts.

Details

Mounting: Can be mounted on most rigid-hull kayaks with stainless steel cavity dowel pins. **Steering:** Steering can be locked, after which kayak is steered with the paddle or the rudder. This results in a larger radius of turn. Alternatively, the motor can be connected to the rudder or the steering system of the boat, which makes it very maneuverable (e.g. for fishing). **Watertightness:** All motor components are watertight, protected against complete immersion.

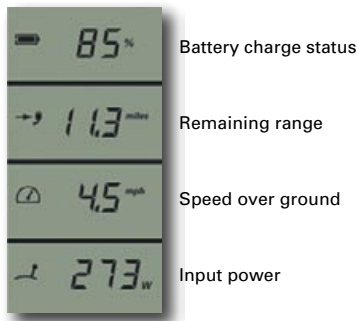
Safety: The motor shuts off when the magnetic key on the remote throttle control is removed. Therefore, for safety reasons, the magnetic key should be attached to the wrist or the life vest. If the kayak capsizes, the motor shuts off automatically to avoid possible injury. **Battery charge time:** When fully discharged, the charge time with the charger supplied is approximately 8 hours. **Lithium-manganese battery life expectancy:** Charge cycles are not the main factor affecting the service life of the lithium-manganese battery. The battery does not have a memory-effect. Generally, a loss of capacity of 4% per year can be assumed. Ageing is accelerated if the battery is exposed to high temperatures for long periods and if it is stored fully charged for long periods. Therefore, the battery can be used in very hot conditions, but should be removed from the sun and stored in a cool place when not used. If it is stored for a longer period of time, its charge status should be about 50%. If these instructions are followed, your battery will have a life expectancy of some 6-10 years.

Integrated battery specifications: The integrated battery has a capacity of 230 Wh, i.e. 8 Ah at 28.8 V.

For technical data and ordering information, turn to pages 22/23



Remote throttle information display (9)



In cooperation with Hobie, we have adapted the Ultralight for the use with Hobie kayaks. The result is called Hobie eVolve: a kayak motor combining the performance of the Ultralight with plug & play installation for Hobie kayaks.

Just drop the eVolve into your Mirage well and turn your kayak into a compact electric craft. Or mount it to the Twist and Stow rudder for a quick conversion to a hybrid kayak...allowing you to pedal and use the electric motor at the same time to extend your range. Contact your Hobie dealer for details.



Ultralight 402 with integrated battery (28.8 V / 8 Ah)
Fishing kayak (Hobie Mirage Revolution), 13.5 ft, 58 lbs

	Speed in mph	Range in miles	Run time in hours
Slow speed	2.6	15.6	6:00
Half throttle	3.7	11.1	3:00
Full throttle	5.8	3.5	0:36

Ultralight 402 with integrated battery (28.8 V / 8 Ah)
Touring kayak (Prijon Prilite T470), 15.4 ft, 51 lbs

	Speed in mph	Range in miles	Run time in hours
Slow speed	2.6	18.7	7:12
Half throttle	3.9	11.7	3:00
Full throttle	6.1	4.1	0:42

Included in delivery



Lithium-battery



Remote throttle control



Battery charger

Accessories



Spare battery



Spare propeller