

Thrust 80LB-180LB(35KG-80KG)

Power 0.7KW-2.7KW

Green、 Quiet & Portable

**HIGH EFFICIENCY
BRUSHLESS ELECTRIC
OUTBOARD MOTOR/
TROLLING MOTOR**



CARROUTE®

CE RoHS

Technical Information

Optimized brushless motor designs



Advanced brushless technology

No reducer, high efficiency & quiet

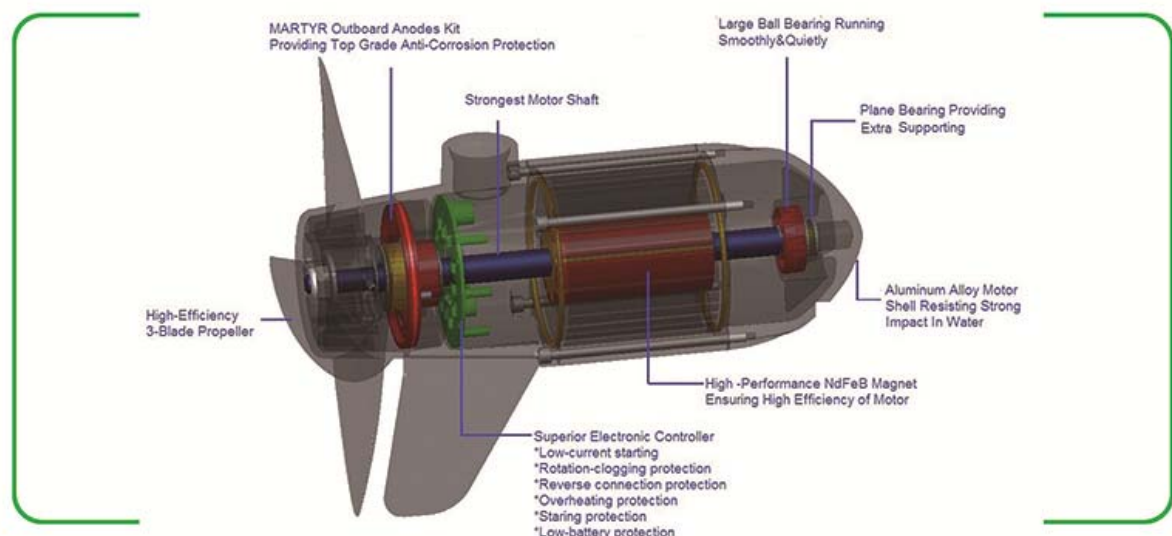
No hall sensor, using back EMF control

Internal IC control board and water cooled

Rugged engineering & reliable performance

Caroute brushless electric motor adopts optimized brushless motor designs, which distinguish Caroute from the competition.

Optimized brushless motor designs contribute to high efficiency, which means, to provide same thrust, Caroute motor consumes less input power than competitors' electric motors. That is why Caroute 80lb motor only requires 12v battery and 160lb motor only requires 24v battery. Besides, thanks to high efficiency, Caroute motor is made much smaller, lighter and less battery consumption.



Technical Information

Model Specification

Caroute Brushless Electric Motor	Caroute 80lb		Caroute 100lb		Caroute 120lb			Caroute 160lb			Caroute 180lb	
Input power in watts	735		1100		1470			2000			2700	
Propulsive power in watts	480		715		1000			1300			1700	
Efficiency at maximum thrust in %	65		65		68			65			63	
Peak efficiency in %	≥83		≥83		≥85			≥83			≥80	
Static thrust in lbs/kgs	80lbs/35kgs		100lbs/45kgs		120lbs/54kgs			160lbs/70kgs			180lbs/80kgs	
Voltage in volt	12	24	24	48	24	36	48	24	36	48	48	
Maximum Torque N.M	3.5		5		8.5			10			12	
Maximum current in amp	60	30	45	22.5	60	40	30	80	56	43	56	
Maximum propeller speed in rpm	1100		1200		1350			1500			1800	
Speeds(FWD/REV)	Variable											
Net weight in lbs/kgs	20lbs/9kgs		22lbs/10kgs		24lbs/11kgs			26lbs/12kgs			29lbs/13kgs	
Shaft length inch/cm	0, 10"/25cm, 24"/60cm, 32"/80cm, 36"/90cm, 42"/100cm, 48"/115cm, Customizable											
Control	Tilt/Extendable Tiller											
Use Battery	1*12V/120Ah		2*12V/120Ah		2*12V/150Ah			2*12V/150Ah			4*12V/150Ah	
Slow Speed MPH/KPH	1-2MPH/2-3KPH		1-2MPH/2-3KPH		1-2MPH/2-3KPH			1-2MPH/2-3KPH			2-2.5MPH/3-4KPH	
Slow speed Runtime Hours	20		30		45			40			40	
Full speed MPH/KPH	4-5MPH/6-8KPH		4-6MPH/6-9KPH		4.5-6.3MPH/7-10KPH			5.5-7MPH/9-11KPH			6-7.5MPH/10-12KPH	
Full speed Runtime Hours	2		2.5		2.5			1.5			2	

Note: Ship size, shape, weight, wind speed and flow etc. will affect test results. Above test data is for reference only.

Platform Selections

N platform



Thrust option:
80lb, 100lb, 120lb,
160lb, 180lb

S platform



Thrust option:
80lb, 100lb, 120lb,
160lb, 180lb
Accessory option:
Power switch, Transom
mount

W platform



Thrust option:
80lb, 100lb, 120lb,
160lb, 180lb
Accessory option:
Steering wheel & cable

E platform



Thrust option:
80lb, 100lb, 120lb, 160lb,
180lb
Accessory option:
Install bracket

R platform



PWM signal/Wireless control:
Available for N,S,W and E platform
Thrust option:
80lb, 100lb, 120lb

Contact information:

Company: Caroute International Co. Ltd,

Ningbo Caroute Imp. & Exp. Co. Ltd.

Add: A1-420 Huangshan road 857, Beilun, Ningbo 315800, China

Email: Jane@caroute.com

Tel: 0086-574-86833972

Website: www.caroute-outdoor.com



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