



ELECTRIC PROPULSION

Since 1893



CE PATENT PENDING

23. 02. 2014

WHAT DO I GET WITH AN ELCO MOTOR PURCHASE?

- Elco Motor
- Battery Charger
- E-Gauge IV
- Throttle
- Ignition key & switch
- Power on light
- Power boost button
- Controller/Inverter
- 15' Pre-wired harness
- Installation Manual



CE | PATENT PENDING

Integrated system components (listed above)

No exhaust

One moving part

Zero maintenance



MADE IN THE U.S.A

BENEFITS OF GOING GREEN



Elco

No exhaust fumes produced

Silent motor operation - No noise pollution

Recyclable batteries

Very small carbon footprint if charged by the solar or wind power options

Cruise all day and charge the batteries overnight for just pennies

The motor fits standard engine mounts

Never needs a tune-up; no need to winterize

Available for conventional shaft connection applications and sail drive units

The motor is water and particle resistant

The patented enclosure ensures that the motor runs cool so it will not heat up the cabin

Great reliability, with an operational service life of 50,000+ hours before scheduled maintenance

More than twice the cruising range than an equivalent diesel engine in a hybrid system

ELECTRICAL SYSTEMS & PERFORMANCE

	Elco AC propulsion:	DC propulsion:	AC & DC belt drive:
AC induction direct drive motor	Yes	No	No
Efficiency	85% - 92%	55% - 60%	50% - 85%
Periodic maintenance	None	Brushes	Brushes & Belts
Only one moving part	Yes	No	No
Integrated motor & controls	Yes	No	No
Plug & play	Yes	No	No
Water resistant to IP-65	Yes	No	No
Cast aluminum mount & enclosure	Yes	No	No



EP MOTORS

PERFORMANCE AND SIZING SPECIFICATIONS

MOTOR SIZING SPECIFICATIONS

	EP-600	EP-1200	EP-2000
Boat size ranges	up to 25'	20' - 35'	25' - 40'
Horse power diesel equivalency	6 h.p.	12 h.p.	20 h.p.
Suggested horsepower replacement range	2 - 8 h.p.	8 - 18 h.p.	15 - 25 h.p.
Miles per gallon equivalency	80 mpg	65 mpg	50 mpg
Length	17"	21"	21"
Width	16.22"	16.22"	16.22"
Height	15.8"	18.32"	18.32"
Weight	170 lbs	260 lbs	260 lbs

ELECTRIC SYSTEM

Cruising speed 60% - 80% of hull speed	4 - 5.5 knots	5 - 6.5 knots	5.5 - 7 knots
Cruising time 60% - 80% of hull speed	9 - 4 hours	7 - 3 hours	6 - 3 hours
Cruising range 60% - 80% of hull speed	39 - 21 nm	33 - 19 nm	34 - 19 nm
Recharging time standard charger <i>(shore power-50% depth of discharge)</i>	3 - 4 hours	3 - 4 hours	4 - 5 hours
Recharging time quick charger <i>(shore power-50% depth of discharge)</i>	2 - 3 hours	2 - 3 hours	3 - 4 hours
Number of 12 volt 8-D batteries (245 Ah)	3 batteries	4 batteries	6 batteries
Battery bank voltage in total	36 vdc	48 vdc	72 vdc
Amps (maximum)	70 amps	106 amps	118 amps
Kilowatts (maximum full power from batteries)	2.5 kW	5.1 kW	8.5 kW
Charger(s) required	1 charger	1 charger	1 charger
Charger	Elcon PFC 1500	Elcon PFC 1500	Elcon PFC2000
Quick charger (optional)	Elcon PFC 2000	Elcon PFC 2000	Elcon PFC3000

HYBRID ELECTRIC SYSTEM - OPTIONAL

Genset kilowatt size (AC or DC) for continuous cruise at 60% - 80% of hull speed <i>Additional kilowatts should be added depending on house loads (1,000 watts equals 1kW)</i>	.75 - 2 kW	1.5 - 3 kW	2.5 - 5 kW
Typical fuel tank capacity for genset (gallons)	10 gal	15 gal	30 gal
Cruising speed 60% - 80% of hull speed	4 - 5.5 knots	5 - 6.5 knots	5.5 - 7 knots
Cruising time 60% - 80% of hull speed	100 - 60 hours	81 - 48 hours	98 - 58 hours
Cruising range 60% - 80% of hull speed	430 - 324 nm	405 - 306 nm	548 - 406 nm
Number of 12 volt 8-D batteries (245 Ah)	3 batteries	4 batteries	6 batteries
Battery bank voltage	36 vdc	48 vdc	72 vdc
Charger(s) required	1 charger	1 charger	1 charger
Charger	Quick Charge Corp QB3625	Quick Charge Corp QB4825	Elcon PFC5000
Genset (continuous output rating)	Honda EU1000i (1kW)	Honda EU2000i (2kW)	Northern Lights M673LD3 (5kW) or Fischer Panda PMS 4200 Plus (3.8kW)

Actual performance may vary based on operating conditions. To convert from nautical miles (nm) to statute miles multiply nm by 1.15.



HYBRID

Adding appropriately sized genset and charger(s) will provide continuous cruise for the Elco Integrated System.



CE AND SIZING SPECIFICATIONS

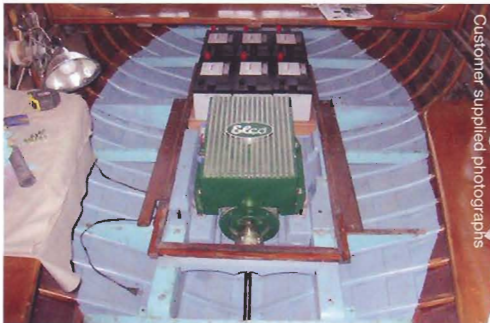
	EP-1200	EP-2000	EP-4000	EP-7000	EP-10000
	20' - 35'	25' - 40'	32' - 48'	38' - 56'	50' - 85'
	12 h.p.	20 h.p.	40 h.p.	70 h.p.	100 h.p.
	8 - 18 h.p.	15 - 25 h.p.	25 - 45 h.p.	45 - 85 h.p.	75 - 125 h.p.
	65 mpg	50 mpg	30 mpg	33 mpg	12 mpg
	21"	21"	29"	35"	35"
	16.22"	16.22"	18.82"	18.82"	18.82"
	18.32"	18.32"	18.83"	19.25"	19.25"
	260 lbs	260 lbs	400 lbs	650 lbs	740 lbs
	5 - 6.5 knots	5.5 - 7 knots	6 - 8 knots	7 - 8.5 knots	7 - 9 knots
	7 - 3 hours	6 - 3 hours	5 - 2 hours	6 - 2 hours	6 - 2 hours
	33 - 19 nm	34 - 19 nm	30 - 17 nm	18 - 10 nm	17 - 9 nm
	3 - 4 hours	4 - 5 hours	4-5 hours	3 - 4 hours	3 - 4 hours
	2 - 3 hours	3 - 4 hours	3-4 hours	2 - 3 hours	2 - 3 hours
	4 batteries	6 batteries	9 batteries	18 batteries	24 batteries
	48 vdc	72 vdc	108 vdc	108 vdc	144 vdc
	106 amps	118 amps	167 amps	275 amps	295 amps
	5.1 kW	8.5 kW	17 kW	29.75 kW	42.5 kW
	1 charger	1 charger	1 charger	2 chargers	2 chargers
	Elcon PFC 1500	Elcon PFC2000	Elcon PFC3000	Elcon PFC4000	Elcon PFC5000
	Elcon PFC 2000	Elcon PFC3000	Elcon PFC4000	Elcon PFC5000	Elcon PFC8000
	1.5 - 3 kW	2.5 - 5 kW	5 - 12 kW	8 - 18 kW	12 - 25 kW
	15 gal	30 gal	50 gal	75 gal	125 gal
	5 - 6.5 knots	5.5 - 7 knots	6 - 8 knots	7 - 8.5 knots	7 - 9 knots
	81 - 48 hours	98 - 58 hours	76 - 46 hours	70 - 42 hours	81 - 49 hours
	405 - 306 nm	548 - 406 nm	478 - 364 nm	490 - 365 nm	583 - 437 nm
	4 batteries	6 batteries	9 batteries	18 batteries	24 batteries
	48 vdc	72 vdc	108 vdc	108 vdc	144 vdc
	1 charger	1 charger	1 - 2 chargers	1 - 2 chargers	2 - 3 chargers
OB3625	Quick Charge Corp OB4825	Elcon PFC5000	Elcon PFC8000	Elcon PFC8000	Elcon PFC8000
(kW)	Honda EU2000i (2kW)	Northern Lights M673LD3 (5kW) or Fischer Panda PMS 4200 Plus (3.8kW)	Northern Lights 843NW3 (12kW) or Northern Lights M773LW3 (9kW) Fischer Panda PMS 08 DP (6.8kW) Fischer Panda PMS 6500 (5.5kW)	Northern Lights M844LW3 (16kW) or Fischer Panda PMS 15 DP (14.1kW) Fischer Panda PMS 12 DP (10.4kW)	Northern Lights M944W3 (30kW) or Northern Lights M864W3 (25kW) Northern Lights M844LW3 (20kW)

Convert nautical miles (nm) to statute miles multiply nm by 1.15.

will provide



TESTIMONIALS



Customer supplied photographs



"The Elco motor offered easy and straightforward installation. We now have a clean engine room and bilge. There are no combustibles so it's a very safe boat to operate. We have found that the motor allows us to jump on the boat and go!

Guests aboard our boat have remarked, "it's so quiet, is it really on?" On-board gauges keep you informed of your running time, volts consumed and how many more hours you have available on the batteries."

Dave Westphal
Florida

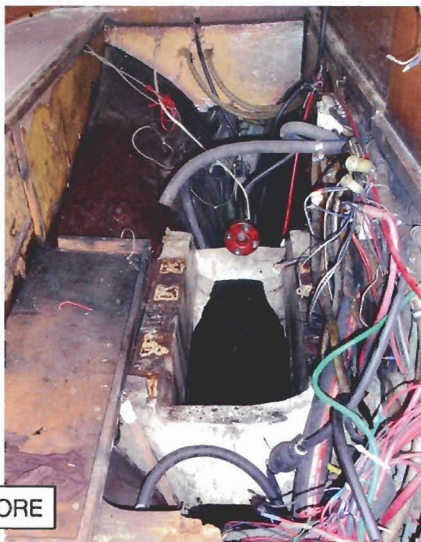


"AMAZING, AMAZING, AMAZING. The Elco EP-4000 has more power than the 50 hp diesel the Elco replaced."

Jamie Looner
New Zealand



BEFORE



AFTER

Customer supplied photograph

"I could not be happier with the Elco motor. My experience with Elco has exceeded my expectations. The customer service has been flawless – even when dealing with a 16 hour time difference. Enquires were all answered promptly and transactions were simple. I was updated continuously during the delivery process.

The Elco motor was as easy to install as promised. The process was far simpler than any engine I have dealt with in the past. The advantages of an Elco motor are numerous, including the silent and no vibration operation, zero emissions, ease of operation and immediate responsiveness are to name just a few.

The Elco motor changed my sailing experience and has made it a more relaxed and enjoyable pursuit. Any yacht I own in the future will be equipped with an Elco motor."

Kym Anquetil

Australia



*The future of our environment
depends on the choices we make today.*

Go Electric



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