



ELECTRIC PROPULSION

motor performance guide



Patent Pending

Elco EP-4000

MOTOR SPECIFICATIONS

Length	29"
Width	18.82"
Height	18.83"
Weight	400 lbs
Motor service life (estimated)	50,000 hrs
Limited Warranty	Details provided on the Elco Motor Yacht website and Owners Manual

ELECTRICAL SYSTEM

Volts	108 vdc
Amp/hrs	220 amp/hrs
Number of batteries	9
Battery weight <small>(95-135 lbs each - Lithium Wet Cell, AGM, Lithium Iron Phosphate)</small>	787-1,822 lbs lbs (total)
Charger(s)	3x36 volt
Plug-in-play components	3
enGauge IV display panel	yes
enGauge VII full color display panel with video	optional
Water resistant	IP55
Battery service life (Flooded wet cell)**	5 yrs
Battery service life (AGM)**	4-6 yrs
Battery service life (lithium iron phosphate)**	10-15 yrs
Generator (electrical recharge)	yes
Generator (continuous running)	yes

PERFORMANCE

Boat size (recommended)	30' to 45'
Cruising range/duration @ 4 knots*	4-6 hrs
Cruising range/duration @ 5 knots*	3-4 hrs
Cruising range/duration @ full speed *	1-3 hrs
Recharging time (shore power)	1- 5 hrs typical maximum of 50% depth of discharge
Recharging (solar)	yes
Recharging (wind)	yes
RPM (designed/max)	1,500 rpm
Power boost	1,800 rpm
Horse power diesel equivalency	40 hp
Kilowatts	20 kW
MPG equivalency (estimated)	30 MPG

*Performance is based on battery power only - Run time can be continuous with Genset

**Actual life based upon battery use and maintenance