



Motor Performance Guide

Elco EP-600



MOTOR SPECIFICATIONS

Length	17"
Width	12"
Height	15"
Weight	85 lbs
Motor service life (estimated)	50,000 hrs
Warranty	3 years parts and 2 years labor on all Elco Electric Motors.

ELECTRICAL SYSTEM

Volts	36 vdc
Amp/hrs	220 amp/hrs
Number of batteries	3
Battery weight (135 lbs each)	405 lbs (total)
Charger(s)	1x36 volt
Plug-in-play components	3
enGauge IV display panel	yes
enGauge VII full color display panel with video	optional
Water resistant/submersible	yes
Battery service life (Flooded wet cell)	5 yrs
Battery service life (AGM)	8 yrs
Battery service life (Limit iron phosphate)	12 yrs
Generator (electrical recharge)	yes
Generator (continuous running)	yes

PERFORMANCE

Boat size (recommended)	10' to 20'
Cruising range/duration @ 4 knots*	7-10 hrs
Cruising range/duration @ 5 knots*	5-7 hrs
Cruising range/duration @ full speed*	3-6 hrs
Recharging (shore power)	1- 5 hrs typical maximum of 50% depth of discharge
Recharging (solar)	yes
Recharging (wind)	yes
RPM (designed/max)	2,000 rpm
Power boost	2,500 rpm
Horse power diesel equivalency	6 hp
Kilowatts	3 kW
MPG equivalency (estimated)	80 mpg

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



Motor Performance Guide

Elco EP-1200



MOTOR SPECIFICATIONS

Length	21"
Width	12"
Height	16"
Weight	210 lbs
Motor service life (estimated)	50,000 hrs
Warranty	3 years parts and 2 years labor on all Elco Electric Motors.

ELECTRICAL SYSTEM

Volts	48 vdc
Amp/hrs	220 amp/hrs
Number of batteries	4
Battery weight (135 lbs each)	540 lbs (total)
Charger(s)	1x48 volt
Plug-in-play components	3
enGauge IV one color display panel	yes
enGauge VII full color display panel with video	optional
Water resistant/submersible	yes
Battery service life (Flooded wet cell)	5 yrs
Battery service life (AGM)	8 yrs
Battery service life (Limit iron phosphate)	12 yrs
Generator (electrical recharge)	yes
Generator (continuous running)	yes

PERFORMANCE

Boat size (recommended)	16' to 25'
Cruising range/duration @ 4 knots*	8-12 hrs
Cruising range/duration @ 5 knots*	6-8 hrs
Cruising range/duration @ full speed *	3-6 hrs
Recharging (shore power)	1- 5 hrs typical maximum of 50% depth of discharge
Recharging (solar)	yes
Recharging (wind)	yes
RPM (designed/max)	2,000 rpm
Power boost	2,500 rpm
Horse power diesel equivalency	12 hp
Kilowatts	6 kW
MPG equivalency (estimated)	65 mpg

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



Motor Performance Guide

Elco EP-2000



MOTOR SPECIFICATIONS

Length	21"
Width	12"
Height	16"
Weight	225 lbs
Motor service life (estimated)	50,000 hrs
Warranty	3 years parts and 2 years labor on all Elco Electric Motors.

ELECTRICAL SYSTEM

Volts	72 vdc
Amp/hrs	220 amp/hrs
Number of batteries	6
Battery weight (135 lbs each)	810 lbs (total)
Charger(s)	2x36 volt
Plug-in-play components	3
enGauge IV display panel	yes
enGauge VII full color display panel with video	optional
Water resistant/submersible	yes
Battery service life (Flooded wet cell)	5 yrs
Battery service life (AGM)	8 yrs
Battery service life (Limit iron phosphate)	12 yrs
Generator (electrical recharge)	yes
Generator (continuous running)	yes

PERFORMANCE

Boat size (recommended)	20' to 34'
Cruising range/duration @ 4 knots*	8-12 hrs
Cruising range/duration @ 5 knots*	6-8 hrs
Cruising range/duration @ full speed *	3-6 hrs
Recharging (shore power)	1- 5 hrs typical maximum of 50% depth of discharge
Recharging (solar)	yes
Recharging (wind)	yes
RPM (designed/max)	2,000 rpm
Power boost	2,500 rpm
Horse power diesel equivalency	20 hp
Kilowatts	10 kW
MPG equivalency (estimated)	50 mpg

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



Motor Performance Guide

Elco EP-4000



MOTOR SPECIFICATIONS

Length	26"
Width	12"
Height	18"
Weight	290 lbs
Motor service life (estimated)	50,000 hrs
Warranty	3 years parts and 2 years labor on all Elco Electric Motors.

ELECTRICAL SYSTEM

Volts	108 vdc
Amp/hrs	220 amp/hrs
Number of batteries	9
Battery weight (135 lbs each)	1,215 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/submersible	yes
Battery service life (Flooded wet cell)	5 yrs
Battery service life (AGM)	8 yrs
Battery service life (Limit iron phosphate)	12 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 (shore power)	1- 5 hrs typical maximum of 50% depth of discharge
Recharging (solar)	yes
Recharging (wind)	yes
RPM (designed/max)	2,000 rpm
Power boost	2,500 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



Motor Performance Guide

Elco EP-7000



MOTOR SPECIFICATIONS

Length	31"
Width	13"
Height	18"
Weight	425 lbs
Motor service life (estimated)	50,000 hrs
Warranty	3 years parts and 2 years labor on all Elco Electric Motors.

ELECTRICAL SYSTEM

Volts	108 vdc
Amp/hrs	220 amp/hrs
Number of batteries	9
Battery weight (135 lbs each)	1,215 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/submersible	yes
Battery service life (Flooded wet cell)	5 yrs
Battery service life (AGM)	8 yrs
Battery service life (Limit iron phosphate)	12 yrs
Generator (electrical recharge)	yes
Generator (continuous running)	yes

PERFORMANCE

Boat size (recommended)	38' to 56'
Cruising range/duration @ 4 knots*	3-4 hrs
Cruising range/duration @ 5 knots*	2-3 hrs
Cruising range/duration @ full speed *	1-2 hrs
Recharging (shore power)	1- 5 hrs typical maximum of 50% depth of discharge
Recharging (solar)	yes
Recharging (wind)	yes
RPM (designed/max)	2,000 rpm
Power boost	2,500 rpm
Horse power diesel equivalency	70 hp
Kilowatts	35 kW
MPG equivalency (estimated)	33 mpg

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



Motor Performance Guide

Elco EP-200



MOTOR SPECIFICATIONS

Length	17"
Width	12"
Height	12"
Weight	85 lbs
Motor service life (estimated)	50,000 hrs
Warranty	3 years parts and 2 years labor on all Elco Electric

ELECTRICAL SYSTEM

Volts	24 vdc
Amp/hrs	220 amp/hrs
Number of batteries	2
Battery weight (135 lbs each)	270 lbs (total)
Charger(s)	1x24 volt
Plug-in-play components	3
enGauge IV display panel	yes
enGauge VII full color display panel with video	optional
Water resistant/submersible	yes
Battery service life (Flooded wet cell)	5 yrs
Battery service life (AGM)	8 yrs
Battery service life (Lithium iron phosphate)	12 yrs
Generator (electrical recharge)	yes
Generator (continuous running)	yes

PERFORMANCE

Boat size (recommended)	5' to 15'
Cruising range/duration @ 3 knots*	10-20 hrs
Cruising range/duration @ 4 knots*	6-12 hrs
Cruising range/duration @ full speed *	3-7 hrs
Recharging (shore power)	1- 5 hrs typical maximum of 50% depth of discharge
Recharging (solar)	yes
Recharging (wind)	yes
RPM (designed/max)	2,000 rpm
Power boost	2,500 rpm
Horse power diesel equivalency	2 hp
Kilowatts	1 kW
MPG equivalency (estimated)	150 mpg

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