

# CLEANER SAILING FROM NAVICO GROUP & INTEGREL

A shared mission to accelerate the marine industry towards sustainable power generation gives customers the option to remove the polluting fossil fuelled generator without sacrificing on-board luxuries.

Founded in 2003, Triskel Marine (trading as Integrel Solutions) has spent 20 years researching and developing efficient power generation and storage technologies for the marine world.

Over the last 20 years, Navico Group have brought together the world's most trusted brands, offering decades of experience designing and developing state of the art technology and intuitive systems.

The Integrel system delivers unprecedented power and drive generation, intelligently stored in 48V Mastervolt batteries. Fathom from Navico, offers the user advanced digital controls on demand with seamless integration.

Marine power generation and control for the 21st century.























**ENGINE RANGE (hp)** 

E-POWER (kW)

E-DRIVE (hp)

**48V SYSTEM** 

**FATHOM INTEGRATION** 

**AFTER MARKET FIT** 

**FACTORY FIT** 

**GLOBAL SUPPORT** 

E-POWER 9 SE	E-POWER 18 DE
30-80	30-80
9 kW	18 kW
_	_
Yes	Yes

E-DRIVE 15 SE	E-DRIVE 30 DE
45-115	45-115
15 kW	30 kW
20	40
Yes	Yes
Yes	Yes
_	_
Yes	Yes
Yes	Yes

	`
E-DRIVE 30 SE	E-DRIVE 60 DE
100-200+	100-200+
30 kW	60 kW
40	80
Yes	Yes
Yes	Yes
_	_
Yes	Yes
Yes	Yes

### FEATURES & BENEFITS

#### **REPLACE YOUR GENERATOR**

Completely replace a standalone generator and use the Integrel system to power all on-board appliances. Make the most of a quieter sailing experience as the Integrel system works in silence.

#### **FULLY AUTOMATIC**

The Integrel system works quietly in the background, with very little need for user intervention. The engine and batteries are carefully monitored and an alert is generated when batteries need charging.

#### **REDUCED COSTS**

Along with reduced maintenance and marina costs, the Integrel system does not require a separate engine. This makes fitting costs less than a standalone generator with no need for through-hull fittings and separate cooling systems.

#### **REDUCED CARBON FOOTPRINT**

The Integrel system improves the fuel efficiency of the propulsion engine up to 25%, reducing overall vessel fuel consumption. It is fully automatic, managing electrical power generation, storage, conversion and distribution in one package.



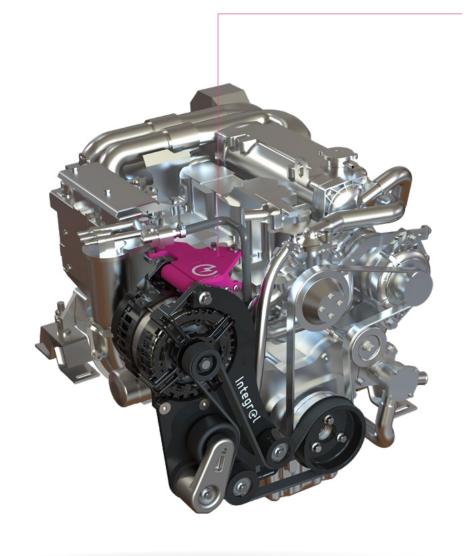
## INTEGREL E-POWER 9 SE

#### **COMPATIBLE WITH**

YANMAR | VOLVO | NANNI | BETA | VETUS

The INTEGREL E-POWER 9 SE, designed for single engine monohull applications, delivers up to 9 kW of energy generation, intelligently stored in 48V Mastervolt batteries. Integrel monitors throttle input, so that in the event full engine power is needed for propulsion, the system instantly powers down. As soon as stable engine RPM is restored, Integrel resumes full power generation.

Integrel E-power 9 SE power generation technology makes fossil fuelled generators obsolete. Tranquil evenings at anchor are no longer ruined by the noise, vibration and smell of a polluting generator.



9 kW 25% of power fuel saving

5% 40 Saving Kilograms 100% AUTOMATIC

48 volts

ZERO MAINTENANCE

## - ON ENGINE GENERATOR (OEG) AND MOUNTING BRACKETS

Mounted on the front of the engine, this generates the power at 48V.

#### - 1X INTELLIGENT CONTROLLER

Manages OEG performance, ensuring the engine is never overloaded.

#### - 1X INTEGREL SCREEN

Allows you to view data from the OEG, the engine and the batteries.

#### - 1X SMART SWITCH

A dedicated safety switch that constantly monitors key parameters to ensure that no safety limits are breached.

#### - 1X BANK SENSOR

Monitors the battery state of charge and energy production.

#### - WIRING LOOMS

Transports the power and data to the components.

#### - FULLY TESTED IN HOUSE

Every component tested and configured to your boat.

#### - 2X ON ENGINE GENERATOR (OEG) AND MOUNTING BRACKET

Mounted on the front of the engine, this generates the power at 48V.

#### - 2X INTELLIGENT CONTROLLER

Manages OEG performance, ensuring the engine is never overloaded.

#### - 1X INTEGREL SCREEN

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# INTEGREL E-POWER 18 DE

#### **COMPATIBLE WITH**

YANMAR VOLVO NANNI BETA VETUS

The INTEGREL E-POWER 18 DE designed for dual engine monohull and catamaran applications, delivers up to 18 kW of energy generation, intelligently stored in 48V Mastervolt batteries.

Integrel can easily be installed on new vessels or retrofitted to existing systems. We typically suggest 5 to 7 days for new build boats. An installation guide is supplied with step-by-step instructions to fit the system. We also offer support training, adding your team to our network of approved installers with the added confidence that advice is readily available if required.

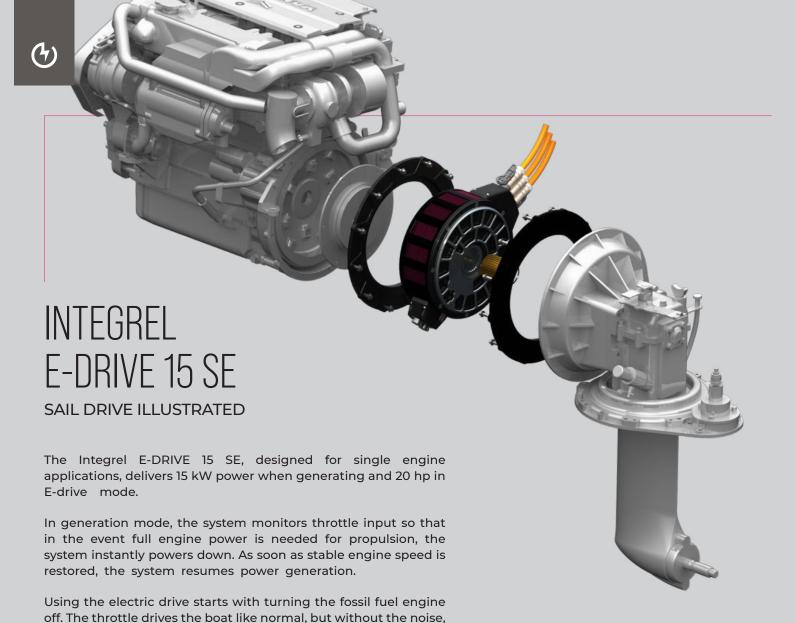
18 kW

25% FUEL SAVING

77 KILOGRAMS  $\frac{100\%}{\text{automatic}}$ 

48 VOLTS

ZERO MAINTENANCE



Installed between the engine and the transmission.

Generates power to charge batteries at 48V.

Drives the boat using power stored in 48V batteries.

#### - 1X INTELLIGENT CONTROLLER

Manages motor operation to provide seamless electric drive transition and automatic power generation.

Full integration with battery systems and third-party screens such as B&G chartplotters.

#### - 1X INTEGREL SCREEN

Provides system monitoring and control of power generation, electric drive and batteries.

#### - FULLY TESTED IN HOUSE

Every component tested & configured for your boat.

#### FIIIIY INTEGRATED

Full integration into Fathom e-power system from Navico.

#### - AVAILABLE IN SHAFT OR SAIL DRIVE

Only adds 100mm to the axial length of the powertrain.

15 kW

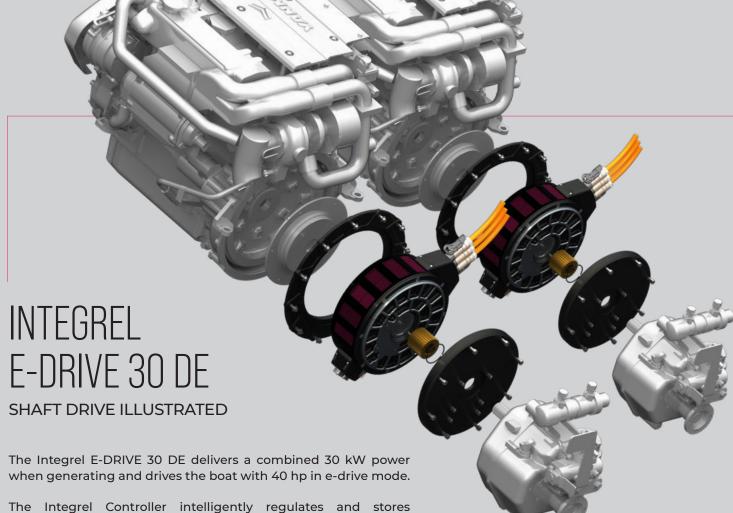
vibration and smell.

25%

40 KILOGRAMS 100%

48 volts 20 E-DRIVE HP

COMPATIBLE WITH



Installed between the engine and the transmission.

Generates power to charge batteries at 48V.

Drives the boat using power stored in 48V batteries.

#### 2X INTFILIGENT CONTROLLER

Manages motor operation to provide seamless electric drive transition and automatic power generation.

Full integration with battery systems and third-party screens such as B&G chartplotters.

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#### - AVAILABLE IN SHAFT OR SAIL DRIVE

Only adds 100mm to the axial length of the powertrain. Offers the user dual redundancy.

The Integrel Controller intelligently regulates and stores generated power in 48V Mastervolt lithium-ion batteries. In e-drive mode, users have seamless control over both e-drives with zero emissions and no additional fuel costs.

With 30kW of power generation and state of the art Mastervolt Lithium-Ion batteries, there's plenty of power available to operate all your favourite appliances on-board. Imagine running air-conditioning all night long to stay cool without all the vibration, noise, pollution and smell of a generator running.

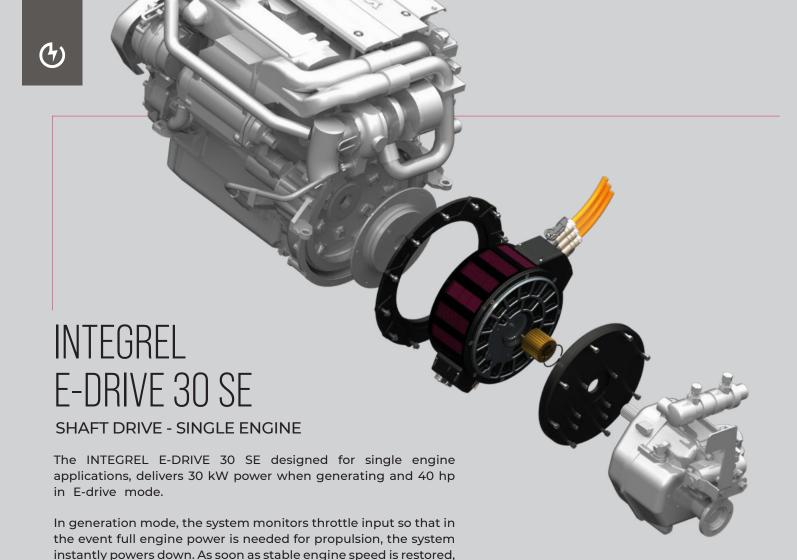
30 kW

25%

OU KILOGRAMS 100%

48 volts 40 E-DRIVE HP

COMPATIBLE WITH



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Generates power to charge batteries at 48V.

Drives the boat using energy stored in 48V batteries.

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#### - 1X INTEGREL SCREEN

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#### - FULLY TESTED IN HOUSE

Every component tested & configured for your boat.

#### FULLY INTEGRATED.

Full integration into Fathom e-power system from Navico.

#### - AVAILABLE IN SHAFT OR SAIL DRIVE

Only adds 150mm to the axial length of the powertrain

30 kW

vibration and smell.

25%

Using the electric drive starts with turning the fossil fuel engine off. The throttle drives the boat like normal, but without the noise,

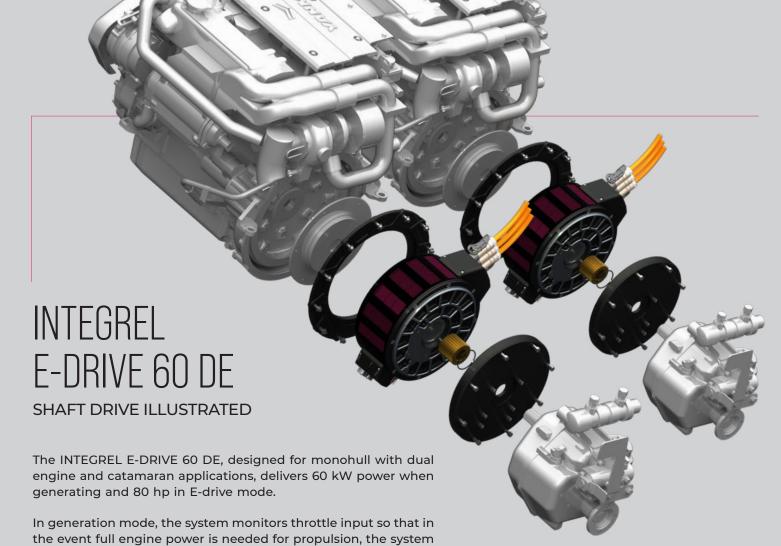
the system resumes power generation.

55 KILOGRAMS

100% automatic 48 volts 40

E-DRIVE HP

OMPATIBLE WITH



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Generates power to charge batteries at 48V.

Drives the boat using power stored in 48V batteries.

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Manages motor operation to provide seamless electric drive transition and automatic power generation.

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#### - FULLY TESTED IN HOUSE

Every component tested & configured for your boat.

#### FIIIIY INTEGRATED

Full integration into Fathom e-power system from Navico.

#### - AVAILABLE IN SHAFT OR SAIL DRIVE

Only adds 150mm to the axial length of the powertrain. Offers the user dual redundancy.

60 kW

vibration and smell.

25%

the system resumes power generation.

/U L **SAVING** 

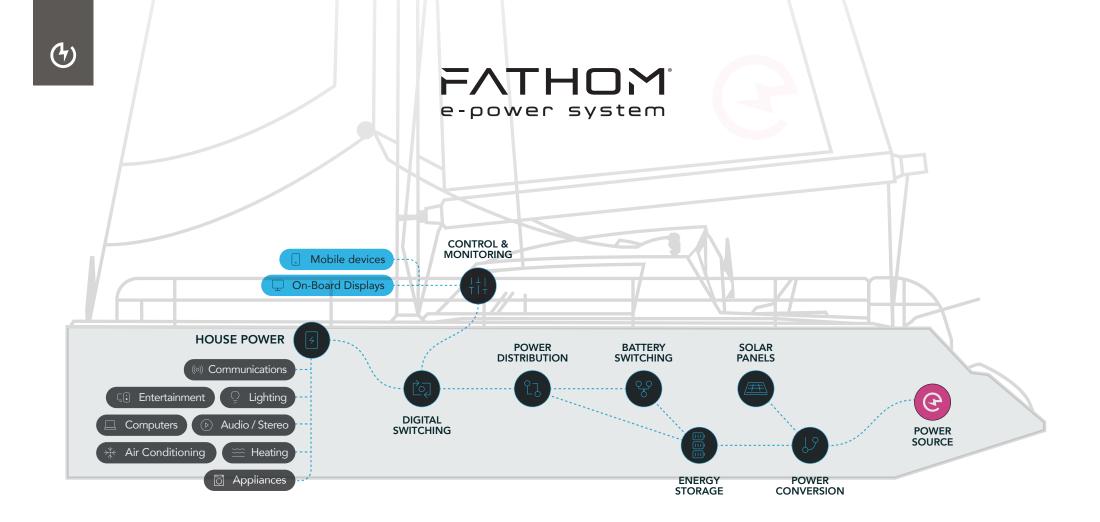
instantly powers down. As soon as stable engine speed is restored,

Using the electric drive starts with turning the fossil fuel engine off. The throttle drives the boat like normal, but without the noise,

110

100% automatic 48 volts 80 E-DRIVE HP

COMPATIBLE WITH

























LOWRANCE

MARINCO

M¢.STERVOLT MotorGuide





**Pro**Mariner





