

Beta Marine are an ISO Quality Assured Firm. Since 1987, we have been continually improving our Quality Procedures, whilst being monitored annually by ISO Quality Services Ltd.



## Marine Generating Sets Engine Data Sheet - BetaSet-BetaGen 21

## **Generating Set Range - Specifications**

2, 3 or 4 cylinders with high inertia flywheel for smooth • running at low rpm.

Heater plugs for cold starting below 5°C, fuel filter, **MECHANICAL** fuel lift pump, **MECHANICAL** fuel injection pump and **MECHANICAL** engine governing<sup>\*</sup> ensures steadfast performance regardless of ambient conditions.

**QUIET GEAR DRIVEN CAMSHAFT** for maximum engine reliability and reduced servicing, as no timing chains or toothed belts have to be replaced.

The generating set seating in the vessel should be level in all planes so it can be bolted down without stress or distortion. Subject to criteria, Kubota based engines can accommodate angles of 15° when pitching and 25° when heeling.

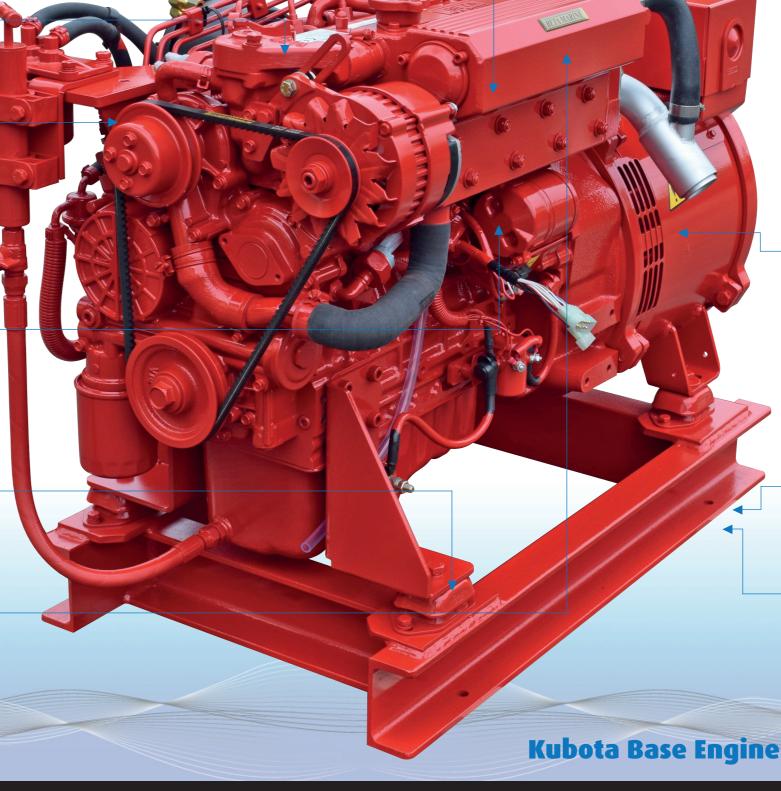
All BetaSet-BetaGen models are 12 volt electric start as standard, models up to the BetaSet-BetaGen 21 are equipped with a 45 amp battery charging alternator, the BetaSet-BetaGen 26 though to the BetaSet-BetaGen 49 are equipped with a 70 amp insulated return battery charging alternator. Optional 24 volt electric start is available for selected models.

The engine and generator alternator are close coupled together and mounted on steel feet with marine failsafe anti-vibration mountings ensuring isolation. Base frames are an optional extra for all BetaSet models.

Available as **HEAT EXCHANGER**, **KEEL** or **RADIATOR COOLED**, all BetaSet-BetaGen models are naturally aspirated except the BetaSet-BetaGen 40T IIIA & 49T IIIA which are turbocharged.

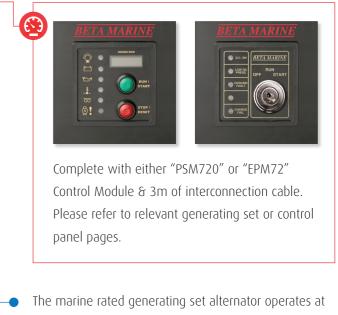
\*The BetaSet-BetaGen 40T IIIA & 49T IIIA are mechanically governed with an electronic actuator.

Images Are For Illustration Purposes & Not Necessarily Representative



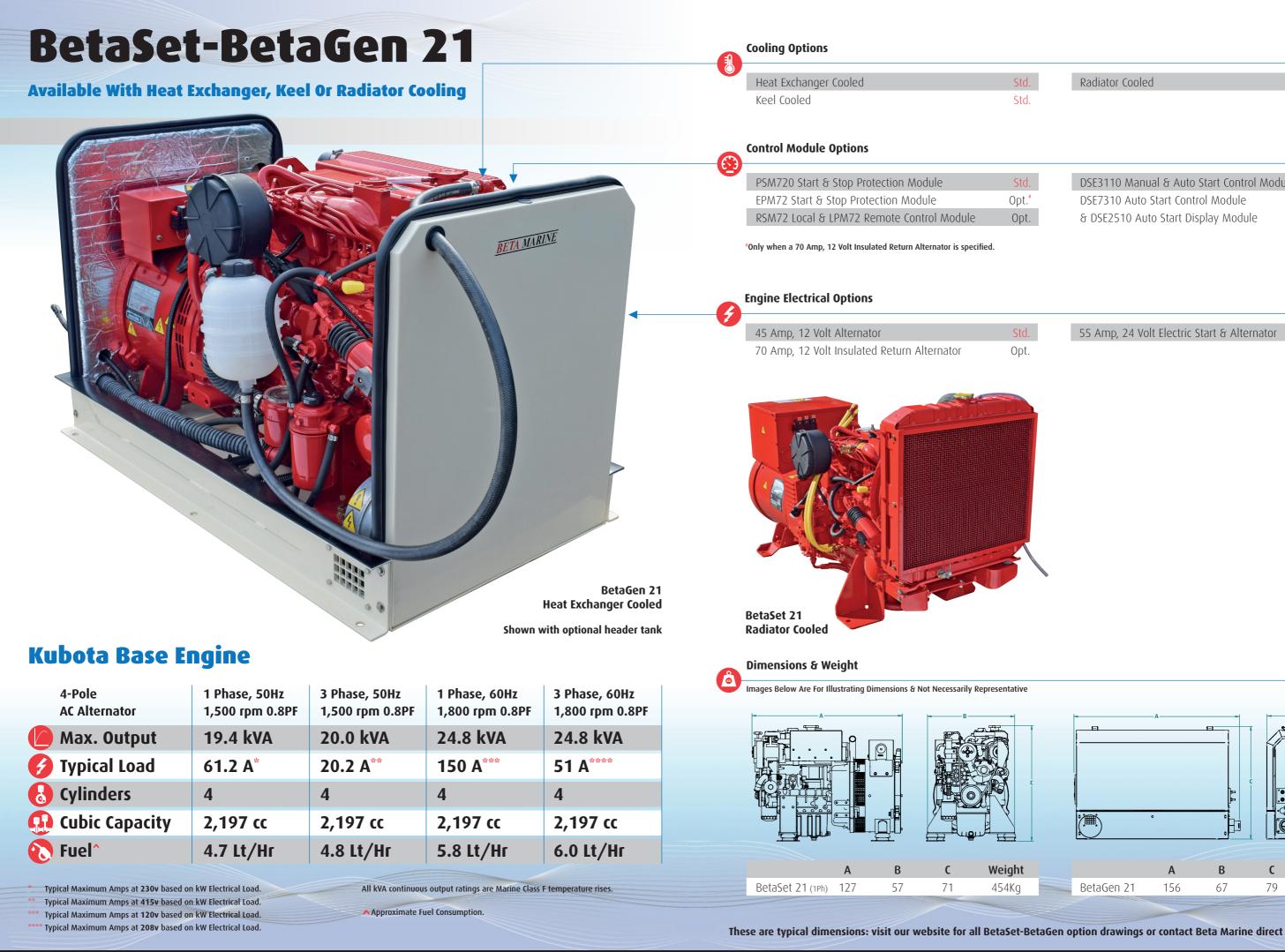
+44 (0)1452 723 492

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Ine marine rated generating set alternator operates at 0.8pf, with either 50 Hz or 60 Hz frequency and has a ventilated drip proof enclosure with IP 22 protection & single bearing construction. The generator is selfregulating, self-excited and is complete with terminal box and automatic voltage regulator. Suitable for operation in engine room temperatures of up to 45°C. Standard 50 Hz voltage is 230v single phase, 400v 3 phase, or standard 60 Hz is 120v single phase, 208v 3 phase, other voltages are available upon request.

- Kubota three vortex combustion (E-TVCS) with indirect injection for quiet running, low emissions and excellent fuel consumption – All BetaSet-BetaGen variants except the BetaSet-BetaGen 40T IIIA & 49T IIIA.
- Kubota centre direct injection (E-CDIS) for quiet running, low emissions and excellent fuel consumption – BetaSet-BetaGen 40T IIIA & 49T IIIA.



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www.betamarine.co.uk

sales@betamarine.co.uk

Beta Marine Ltd operates a policy of continuous improvement and reserves the right to change prices & specification without prior notification. Information given is subject to our current conditions of tender & sale.

Radiator Cooled

Opt.

Opt.

DSE3110 Manual & Auto Start Control Module	Opt.
DSE7310 Auto Start Control Module	
& DSE2510 Auto Start Display Module	Opt.

55 Amp,	24	Volt	Electric	Start &	Alternator
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