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* ensures steadfast performance regardless of ambient conditions.

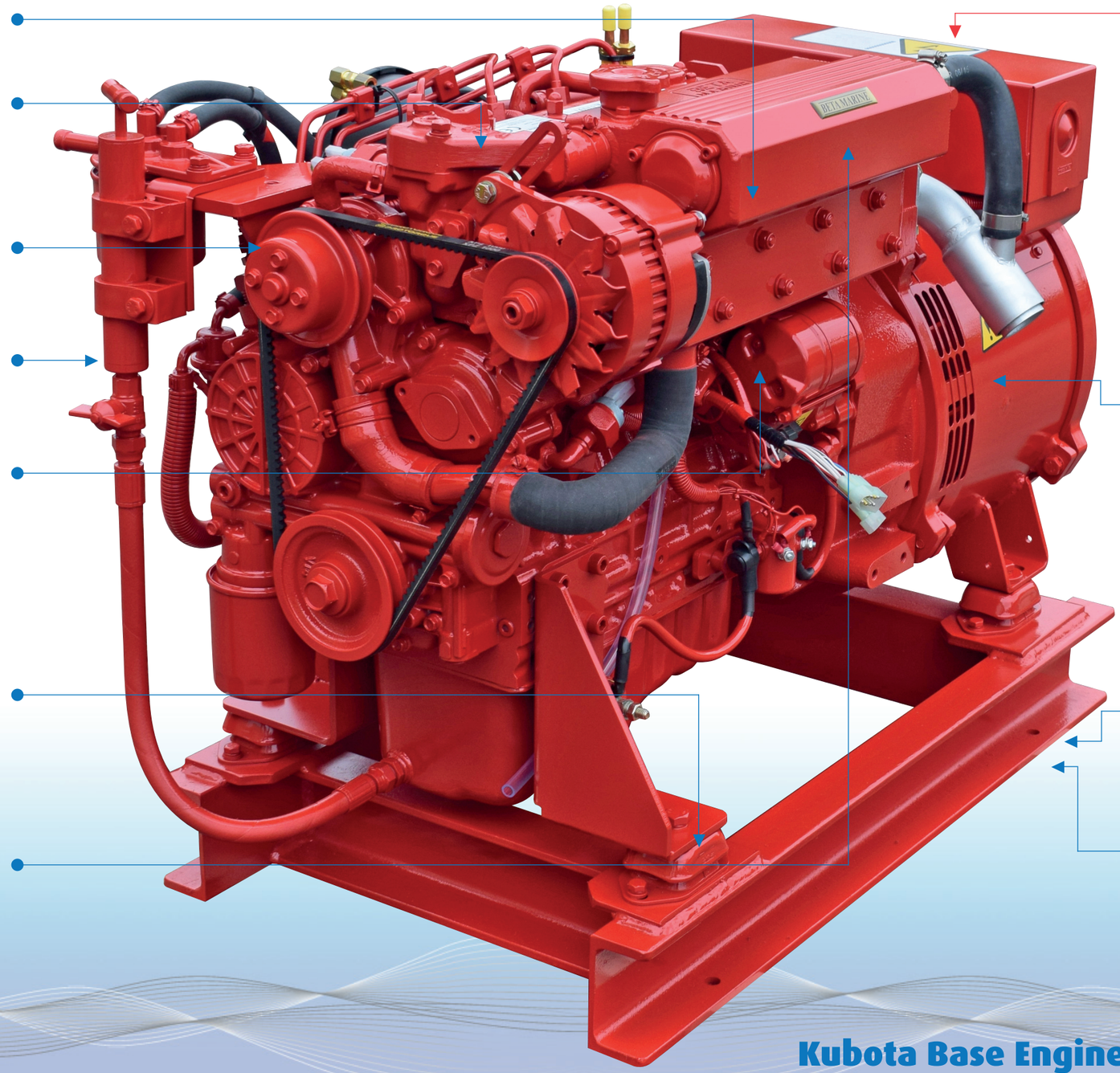
QUIET GEAR DRIVEN CAMSHAFT for maximum engine reliability and reduced servicing, as no timing chains or toothed belts have to be replaced.

Subject to criteria, Kubota based engines accommodate installation angles up to 15° maximum when static 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.



Complete with either "PSM720" or "EPM72" Control Module & 3m of interconnection cable. Please refer to relevant generating set or control panel pages.

The 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 self-regulating, 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 singel 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.

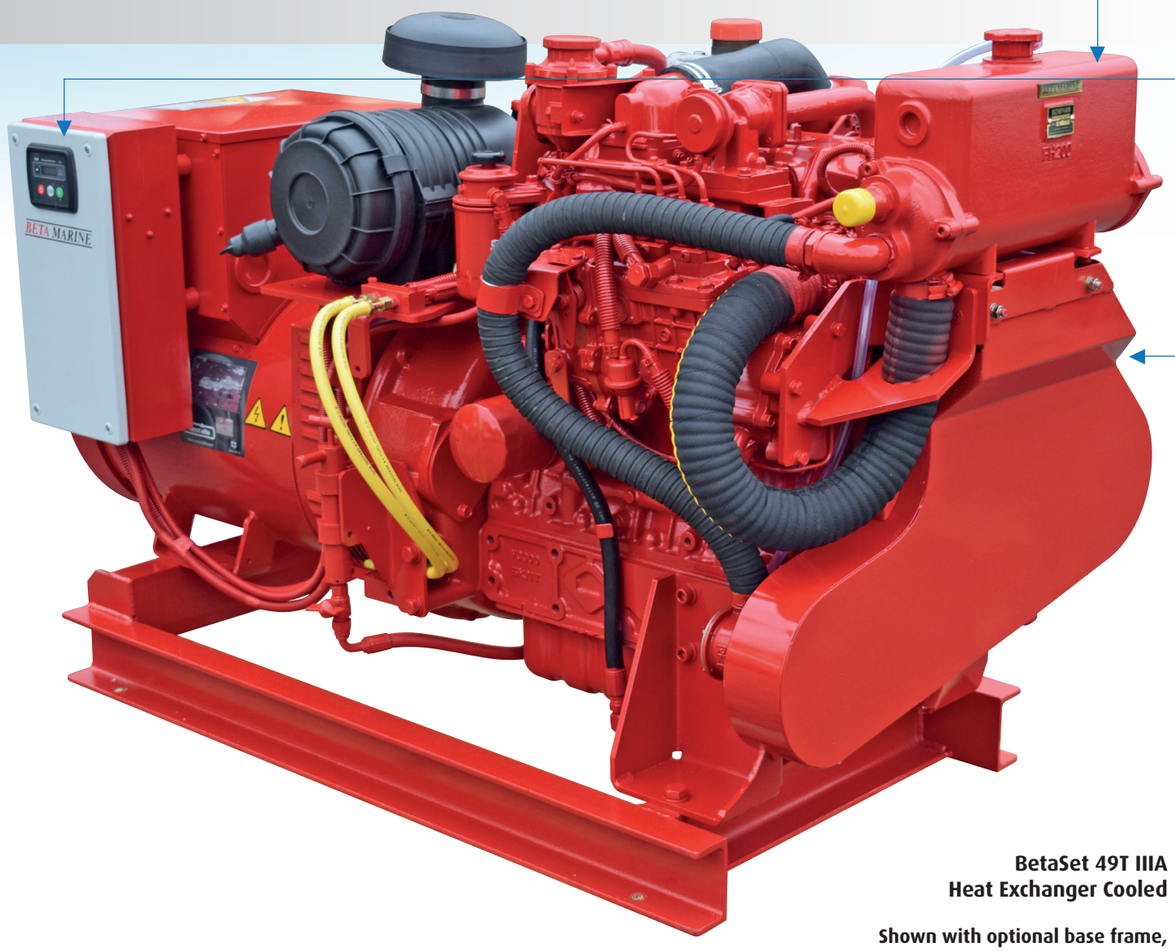
*The BetaSet-BetaGen 40T IIIA & 49T IIIA are mechanically governed with an electronic actuator.

Images Are For Illustration Purposes & Not Necessarily Representative.

Kubota Base Engine

BetaSet-BetaGen 49T IIIA

Available With Heat Exchanger, Keel Or Radiator Cooling



BetaSet 49T IIIA
Heat Exchanger Cooled

Shown with optional base frame, forward end DC alternator guard and mounted control panel

Cooling Options

Heat Exchanger Cooled	Std.	Radiator Cooled	Opt.
Keel Cooled	Std.		

Control Module Options

EPM72 Start & Stop Protection Module	Std.	DSE7310 Auto Start Control Module & DSE2510 Auto Start Display Module	Opt.
RSM72 Local & LPM72 Remote Control Module	Opt.		
DSE3110 Manual & Auto Start Control Module	Opt.		

Engine Electrical Options

70 Amp, 12 Volt Insulated Return Alternator	Std.	55 Amp, 24 Volt Electric Start & Alternator	Opt.

BetaGen 49T IIIA
Keel Cooled

Kubota Base Engine

4-Pole AC Alternator	1 Phase, 50Hz 1,500 rpm 0.8PF	3 Phase, 50Hz 1,500 rpm 0.8PF	1 Phase, 60Hz 1,800 rpm 0.8PF	3 Phase, 60Hz 1,800 rpm 0.8PF
Max. Output	45.0 kVA	48.0 kVA	52.8 kVA	58.0 kVA
Typical Load	142 A*	49 A**	320 A***	119 A****
Cylinders	4	4	4	4
Cubic Capacity	3,769 cc	3,769 cc	3,769 cc	3,769 cc
Fuel^	10.4 Lt/Hr	10.3 Lt/Hr	11.8 Lt/Hr	12.3 Lt/Hr

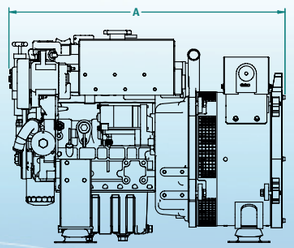
* Typical Maximum Amps at **230v** based on kW Electrical Load.
** Typical Maximum Amps at **415v** based on kW Electrical Load.
*** Typical Maximum Amps at **120v** based on kW Electrical Load.
**** Typical Maximum Amps at **208v** based on kW Electrical Load.

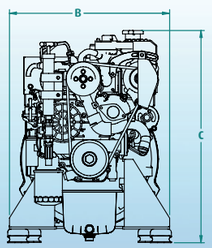
All kVA continuous output ratings are Marine Class F temperature rises.

^ Approximate Fuel Consumption.

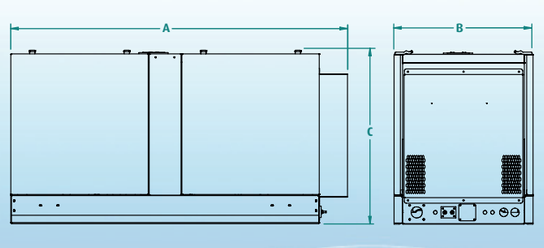
Dimensions & Weight

Images Below Are For Illustrating Dimensions & Not Necessarily Representative





	A	B	C	Weight
BetaSet 49 IIIA	146	67	86	735Kg



	A	B	C	Weight
BetaGen 49 IIIA	180	74	91	950Kg

These are typical dimensions: visit our website for all BetaSet-BetaGen option drawings or contact Beta Marine direct

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