

BETA MARINE

Beta Marine Kubota Range Generating sets 60Hz.

Specification – Standard Generating Sets

Beta Marine Generating Set each having a Continuous Rated Output as detailed below, and operating at 0.8 PF, 60Hz; arranged for single operation, designed, built and tested by BETA MARINE Limited, each comprising:

- Beta Marine Kubota water cooled diesel engine, naturally aspirated, rated at either 1800 or 3600 rev/min for continuous operation in accordance with ISO 3046 (the BV3300T is turbocharged). An overload of 10% is available for one hour during a 12 hour period.
- Heat exchanger cooling complete with cupro-nickel tube stack and phosphor bronze end caps and anode; with fresh water and sea water pumps.
- Water cooled exhaust manifold and water injection exhaust bend.
- 12 volt electric start system and stop solenoid valve, 2 wire grounded system (insulated return on BV3300/T BV3800).
- Combined start, alarm and shutdown module (supplied loose with 3 metres connection cable). Module includes:- Start/Stop control, Indicators with shutdown on fault of low lubricating oil pressure and high coolant temperature. An hours run meter is also supplied.
- Speed governor to control engine speed to the requirements of ISO 3046 for diesel generating set.
- Engine fuel oil, lubricating oil and air filters. Engine mounted Sump drain pump.
- Marine rated generator operating at 0.8pf, and 60 Hz, ventilated drip-proof enclosure with IP 23 protection, single bearing construction. The generator is self regulating and self excited and is complete with terminal box, automatic voltage regulator.
- Engine and generator are close coupled together and mounted on substantial steel feet with marine failsafe anti-vibration mountings to isolate the set.
- Paint: Beta Red.
- Each generating set is "full load" tested in accordance with our quality document QA023.
- Warranty: 12 months from date of commissioning or 18 months from date of despatch – which ever comes first.
- Keel/box cooling versions are available
- Options are available and alternative specifications and requirements can be quoted on request.

Specification - Acoustically Housed Generating Sets

Based upon our Standard Generating set but housed in an Acoustic Canopy – the noise level will be less than 60dB(A) sound pressure when measured at 7 metres under "free field" conditions. **IMPORTANT** – Generator outputs should be derated by 10 percent when fitted with an Acoustic Housing. All generating set connections (fuel, cooling water, battery, exhaust and cooling air) are brought to the outside of the housing for quick and easy installation.

KW Rating Table – 3600 rev/min – 60Hz

Model	Single Phase	3 Phase	Cyl.	Cyl. Vol.	Fuel Lt/Hr
BZ482	3.7	-	2	479 cc's	3.2
BZ482	6.5	8.4	2	479 cc's	3.2
BD722	11.3	12.5	3	719 cc's	4.8
BV1305	22.4	24.0	4	1335 cc's	8.2

KW Rating Table – 1800 rev/min – 60Hz

Model	Single Phase	3 Phase	Cyl.	Cyl. Vol.	Fuel Lt/Hr
BD905	7.1	7.8	3	899 cc's	2.5
BD1105	9.8	10.5	3	1124 cc's	3.2
BV1305	11.2	12.3	4	1335 cc's	3.6
BV1505	13.5	14.6	4	1498 cc's	4.2
BD1703	15.2	15.2	3	1647 cc's	5.1
BV1903	17.3	18.7	4	1857 cc's	5.7
BV2203	22.0	22.0	4	2197 cc's	6.7
BV3300	28.0	27.5	4	3318 cc's	7.4
BV3300	39.0	41.0	4	3318 cc's	10.1
BV3300T	43.0	46.0	4	3318 cc's	12.8
BV3800	47.0	50.0	4	3769 cc's	13.0

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Overall Dimensions - Beta Marine Kubota Range Generating sets

(All dimensions are in millimetres and approximate).

3600 rev/min – 60Hz Standard Generating Set

Model	Length	Width	Height	Weight
BZ482	756	438	578	116
BD722	841	438	582	199
BV1305	992	549	613	296

1800 rev/min – 60Hz Standard Generating Set

Model	Length	Width	Height	Weight
BD905	868	549	613	237
BD1105	868	549	613	245
BV1305	967	549	613	267
BV1505	967	549	613	283
BD1703	933	560	703	390
BV1903	1224	560	703	412
BV2203	1270	560	703	454
BV3300	1324	619	855	602
BV3300	1449	619	855	670
BV3300T	1449	680	808	690
BV3800	1555	660	849	735

Acoustically Housed Generating Sets

3600 rev/min – 60Hz Acoustic Housing Generating Set

Model	Length	Width	Height	Weight
BZ482	795	490	585	165
BD722	1002	567	650	259
BV1305	1153	580	690	409

1800 rev/min – 60Hz Acoustic Housing Generating Set

Model	Length	Width	Height	Weight
BD905	1028	580	690	316
BD1105	1028	580	690	324
BV1305	1137	580	690	347
BV1505	1137	580	690	363
BD1703	1158	670	815	498
BV1903	1480	670	815	530
BV2203	1480	670	815	580
BV3300	1535	710	887	792
BV3300	1680	710	887	860
BV3300T	1680	710	887	890
BV3800	1786	740	887	950

Detailed drawings are available upon request

Approximate Export Packed dimensions – please add 30cms to the Length, Width and Height.