Kubota

KUBOTA J SERIES DIESEL ENGINE GENERATORS

Made With You In Mind

Output Range: (Single Phase) 5.5 kW ~ 18.8 kW
(Three Phase) 10.0 kVA (8.0 kW) ~ 23.5 kVA (18.8 kW)

ISO 9002 Certified KUBOTA ENGINE PLANTS – SAKAI/TSUKUBA/SAKAI-RINKAI–
Have also received the german DAR certification.

The Power You Can Always Count On

Kubota, the company that really understands your generator needs, introduces a new line of semi-open type generators packed with more features than comparable models in its class. The J-Series' compact "easy to use anywhere" design permits operation even where space is limited. The combination of a larger capacity fuel tank and Kubota's exceptional fuel efficiency gurarantee longer hours of continual electrical energy. By using Kubota's own clean emission diesel engines, dependability is built-in. If you need a compact, easy to use, easy to operate, economical and dependable power, get a Kubota.

Specifications

MODEL			For 50 Hz Area						
			Single Phase Model				3-Phase Model		
			J106	J108	J112	J116	J310	J315	J320
Output Power									
Standby Output		KVA(kW)	6.0(6.0)	8.8(8.8)	13.2(13.2)	17.6(17.6)	11(8.8)	16.5(13.2)	22(17.6)
Prime Output		KVA (KW)	5.5(5.5)	8(8)	12(12)	16(16)	10(8)	15(12)	20(16)
Voltage - 3 phase			– –	– –	– –	– –	380 415	380 415	380 415
Voltage - single phase			220 240	220 240	220 240	220 240	220 240	220 240	220 240
Rated Amperage	Single phase - 110V	A	–	–	–	–	–	–	–
	Single Phase - 120V	A	–	–	–	–	–	–	–
	Single phase - 127V	A	–	–	–	–	–	–	–
	Single phase - 220V	A	25.0	36.4	54.5	72.7	9.1 x 3	13.7 x 3	18.2 x 3
	Single phase - 240V	A	22.9	33.3	50.0	66.7	8.3 x 3	12.5 x 3	15.0 x 3
	3 phase - 208V	A	–	–	–	–	–	–	–
	3 phase - 220V	A	–	–	–	–	–	–	–
	3 phase - 380V	A	–	–	–	–	15.2	22.8	30.4
	3 phase - 415V	A	–	–	–	–	13.9	20.9	27.8
Generator									
Design			Revolving-field, self/separated excited type AVR generator						
No. of poles			2-Pole						
Generator		RPM	3000						
Frequency		Hz	50						
Power Factor			1.0				0.8		
Insulation			Rotor coil; Class F, Stator coil; Class B						
Type of Coupling			Direct coupling						
Diesel Engine									
Kubota Engine Model			Z482	D722	D1005	V1305	D722	D1005	V1305
Design			4-cycle Water cooled diesel engine						
Starting system			Electric - 12 volt DC						
Displacement		CC	479	719	1001	1335	719	1001	1335
No. of Cylinders			2	3	3	4	3	3	4
Bore x Stroke		mm	67 x 68	67 x 68	76 x 73.6	76 x 73.6	67 x 68	76 x 73.6	76 x 73.6
Lubricating Oil			API Service ClassCD, CE, CF, 10W30						
Lubricating Oil Capacity		litter(U.S.qts)	2.2(2.32)	3.4(3.6)	4.3(4.54)	5.7(6.02)	3.4(3.6)	4.3(4.54)	5.7(6.02)
Coolant Capacity		litter(U.S.qts)	2.3(2.43)	3(3.17)	3.3(3.49)	3.5(3.7)	3(3.17)	3.3(3.49)	3.5(3.7)
Set									
Fuel			Diesel fuel No. 2 (ASTM D975)						
Fuel Tank Capacity		litter(U.S.gal)	37(9.77)	37(9.77)	79(20.87)	79(20.87)	37(9.77)	79(20.87)	79(20.87)
Fuel Consumption	at Full Load	L/h(g/h)	2.25(0.6)	3.15(1.57)	4.5(2.24)	5.95(2.96)	3.15(1.57)	4.5(2.24)	5.95(2.96)
	at 3/4 Load	L/h(g/h)	1.88(0.5)	2.63(1.31)	3.78(1.88)	4.75(2.36)	2.63(1.31)	3.78(1.88)	4.75(2.36)
	at 1/2 Load	L/h(g/h)	1.55(0.77)	2.18(1.08)	2.88(1.43)	3.78(1.88)	2.18(1.08)	2.88(1.43)	3.78(1.88)
Continuous Operating Hours	at Full Load	hours	16	11.5	17	13	11.5	17	13
	at 3/4 Load	hours	19	13.5	20	16.5	13.5	20	16.5
	at 1/2 Load	hours	23	16.5	26.5	20.5	16.5	26.5	20.5
Battery		V-Ah/20Hr	12V-35Ah	12V-45Ah	12V-65Ah	12V-65Ah	12V-45Ah	12V-65Ah	12V-65Ah
Type of Stop Solenoid			Energized-to-Stop		Energized-to-Run		Energized-to-Stop	Energized-to-Run	
Sound Level Full Load at 7 meter (23 feet)		dB(A)	74.0	75.0	76.5	77.5	75.0	76.5	77.5
L x W x H w/o Caster	L	mm(inch)	923(36.4)	995(39.2)	1215(47.9)	1300(51.2)	995(39.2)	1215(47.9)	1300(51.2)
	W	mm(inch)	593(23.4)	593(23.4)	611(24.1)	611(24.1)	593(23.4)	611(24.1)	611(24.1)
	H	mm(inch)	860(33.9)	860(33.9)	922(36.3)	922(36.3)	860(33.9)	922(36.3)	922(36.3)
Approx. Dry Net Weight		kg(lb.)	225(496)	255(562)	340(750)	380(838)	255(562)	340(750)	380(838)
Options									
Caster x 4			available		N/A		available	N/A	

Single Phase

3 Phase

*The model numbers starting with J1 mean single phase models, and the model numbers starting with J3 mean 3-phase.

For 60 Hz Area						
Single Phase Model				3-Phase Model		
J107	**J110**	**J114**	**J119**	**J313**	**J318**	**J324**
7.1(7.1)	11(11)	15.4(15.4)	20.6(20.6)	13.7(11)	19.2(15.4)	25.8(20.6)
6.5(6.5)	10(10)	14(14)	18.8(18.8)	12.5(10)	17.5(14)	23.5(18.8)
–	–	–	–	220 208	220 208	220 208
110/220 127/220 120/240	110/220 127/220 120/240	110/220 127/220 120/240	110/220 127/220 120/240	127 120	127 120	127 120
59.1	90.9	63.6 x 2	85.5 x 2	–	–	–
54.2	83.3	58.3 x 2	78.3 x 2	20 x 3	30 x 3	40 x 3
51.2	78.7	90.6	90.6	19.7 x 3	27.5 x 3	37 x 3
29.5	45.5	63.6	85.5	15 x 3	20 x 3	27.3 x 3
27.1	41.7	58.3	78.3	–	–	–
–	–	–	–	34.7	48.5	65.2
–	–	–	–	32.8	45.9	61.7
–	–	–	–	–	–	–
–	–	–	–	–	–	–

Revolving-field, self/separated excited type AVR generator						
2-Pole						
3600						
60						
1.0				0.8		
Rotor coil; Class F, Stator coil; Class B						
Direct coupling						

Z482	D722	D1005	V1305	D722	D1005	V1305
4-cycle Water cooled diesel engine						
Electric - 12 volt DC						
479	719	1001	1335	719	1001	1335
2	3	3	4	3	3	4
67 x 68	67 x 68	76 x 73.6	76 x 73.6	67 x 68	76 x 73.6	76 x 73.6
API Service ClassCD, CE, CF, 10W30						
2.2(2.32)	3.4(3.6)	4.3(4.54)	5.7(6.02)	3.4(3.6)	4.3(4.54)	5.7(6.02)
2.3(2.43)	3(3.17)	3.3(3.49)	3.5(3.7)	3(3.17)	3.3(3.49)	3.5(3.7)

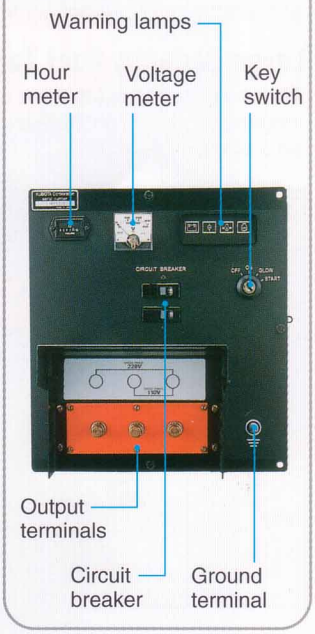
Diesel fuel No. 2 (ASTM D975)						
37(9.77)	37(9.77)	79(20.87)	79(20.87)	37(9.77)	79(20.87)	79(20.87)
2.75(1.37)	4.22(2.1)	5.82(2.89)	7.5(3.73)	4.22(2.1)	5.82(2.89)	7.5(3.73)
2.3(1.14)	3.5(1.74)	4.8(2.38)	6.1(3.03)	3.5(1.74)	4.8(2.38)	6.1(3.03)
1.9(0.94)	2.85(1.42)	3.87(1.92)	4.95(2.46)	2.85(1.42)	3.87(1.92)	4.95(2.46)
13	8.5	13.5	10.5	8.5	13.5	10.5
15.5	10.5	16	13	10.5	16	13
19	12.5	20	16	12.5	20	16
12V-35Ah	12V-45Ah	12V-65Ah	12V-65Ah	12V-45Ah	12V-65Ah	12V-65Ah
Energized-to-Stop		Energized-to-Run		Energized-to-Stop	Energized-to-Run	
76.0	76.5	81.0	82.0	76.5	81.0	82.0
923(36.4)	995(39.2)	1215(47.9)	1300(51.2)	995(39.2)	1215(47.9)	1300(51.2)
593(23.4)	593(23.4)	611(24.1)	611(24.1)	593(23.4)	611(24.1)	611(24.1)
860(33.9)	860(33.9)	922(36.3)	922(36.3)	860(33.9)	922(36.3)	922(36.3)
225(496)	255(562)	340(750)	380(838)	255(562)	340(750)	380(838)

available		N/A	available	N/A

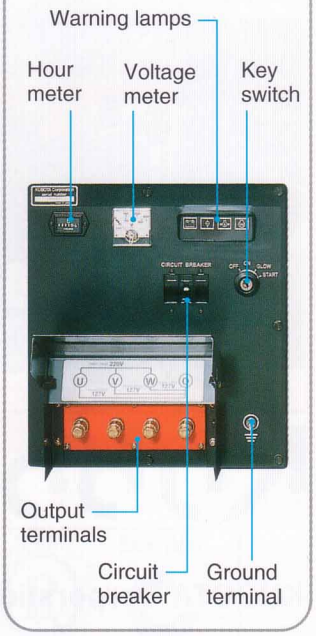
*Specifications are subject to change without notice.

Control Panel

Single Phase



3 Phase



Designed to Answer Your Needs

Ease of Operation

Compact Design

The J-series' advanced design and superior engineering minimized both space and weight. Whether its your backyard or in your basement, it will fit neatly in most any place you wish to put it.

High Output

Thanks to the engine's vertical design, this direct coupled 2-pole series is capable of producing high output.

Front Panel Control

Key switch, voltage meter, circuit breaker, and warning lamps are all conveniently gathered on a drip proof control panel.

Large Capacity Fuel Tank

The larger capacity fuel tank enables longer periods of continuous operation on a single tank of fuel.

(hrs)

Model		Continuous Operating Hours		
		at Full Load	at 3/4 Load	at 1/2 Load
50Hz	J106	16	19	23
	J108	11.5	13.5	16.5
	J112	17	20	26.5
	J116	13	16.5	20.5
	J310	11.5	13.5	16.5
	J315	17	20	26.5
	J320	13	16.5	20.5
60Hz	J107	13	15.5	19
	J110	8.5	10.5	12.5
	J114	13.5	16	20
	J119	10.5	13	16
	J313	8.5	10.5	12.5
	J318	13.5	16	20
	J324	10.5	13	16

Enhanced Transportability

A 1-point lifting eye and special forklift openings helped enhance the series transportability.

Easy Maintenance

Effortless Maintenance

All gauges and filters (except for Z482 and D722's oil filter) are conveniently situated to simplify daily maintenance.

Double Element Air Filter

A double element air filter is used in the J-Series to withstand heavy-duty use, and to protect the generator from sand-caused damages.

Dependable Power

Transistor Automatic Voltage Regulator (AVR)

The J-Series uses a transistor AVR to ensure a stable flow of current for most any kind of jobs you can think of.

A Skewed Rotor & Damper Winding

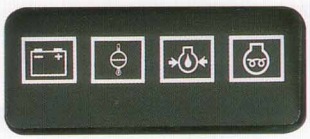
The waveform distortion is kept to a minimum by the skewed rotor, while the damper winding protects the generator during short circuits, regulates voltage fluctuations during condensive loads, and withstands load fluctuations during condensive and non-linear loads.

Increased Safety

Emergency Unit

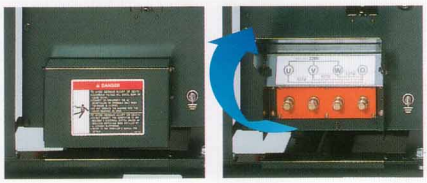
Automatically shut the engine down in case of abnormalities in oil pressure, water temperature, and when the fanbelt breaks*.

*Fanbelt accident prevention is only applicable to generators using D1005 and V1305 engines.



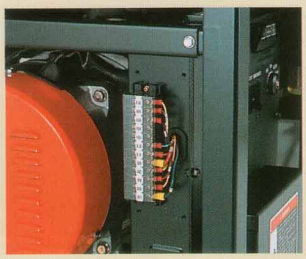
Electric Shock and Entangling Preventions

Protective covers are attached on all output terminals to prevent electric shocks. The number of safety covers has also been increased to prevent entangling accidents.



Access Terminals for Easy Wiring with AMF Panel or ATS

New access terminals are provided for easy wiring with the automatic start/stop system. These terminals are also for the AMF panel and the Automatic Transfer Switch, which are both options provided separately by the user.



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