http://www.adultpdf.com
Created by TIFF To PDF trial version, to remove this mark, please register this software.

SECTION 10

DIESEL GENERATOR SETS

CONTENTS

Features 10-2
Specifications 10-3

http://www.adultpdf.com
Created by TIFF To PDF trial version, to remove this mark, please register this software.

Compact, durable, high performance brush less AC generator

- New brushless generator(EG33B(s)~EG150B(s)) using new excitation method.
- Strong against unbalanced loads. Can use single phase load 100%.
- Variation in voltage is small because of use of AVR(Automatic Voltage Regulator).

Easy operation

- The gauges and switches are centralized, so operation and supervision are simple.
- Voltage can be set easily with a voltage regulator knob.
- Switching between 200V/400V is easy(for EG125B(s) and above). (factory option)
- Switching for 50Hz/60 Hz can be carried out simply by changing engine speed.

Job–proven Komatsu engine for construction equipment

- A Komatsu engine with excellent reliability and durability is mounted.
- Starting is easy and fuel consumption is good.

Easy maintenance

- The generator is brushless, so there is no need to maintain the brushes and slip rings.

Full range of protective devices

- Safety devices such as molded case circuit breaker and emergency stop system, are installed as standard.

http://www.adultpdf.com
Created by TIFF To PDF trial version, to remove this mark, please register this software.

Item \ Model		EG33BS-1				EG40BS-1				EG60BS-1			
	Bonnet & Soundproof Type												
	Bonnet Type	EG33B-1				EG40B-1				EG60B-1			
	Non-Bonnet Type	EG33-1				EG40-1				EG60-1			
GENERATOR													
Rated output	Frequency	50Hz		60Hz		50Hz		60Hz		50Hz		60Hz	
	Prime	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW
		27.0	21.6	33.0	26.4	33.0	26.4	40.0	32.0	50.0	40.0	60.0	48.0
	Standby	30.0	24.0	36.3	29.1	36.3	29.1	44.0	35.2	55.0	44.0	66.0	52.8
ENGINE													
Model		Komatsu 4D95L-W-1				Komatsu 4D95L-1				Komatsu 6D95L-1			
Flywheel horsepower HP (kW)	Prime (at 1500/1800 RPM)	34.5 (25.8)/41.4 (30.9)				42.4 (31.6)/50.3 (37.5)				65.1 (48.6)/74.9 (55.9)			
	Standby (at 1500/1800 RPM)	38.5 (28.7)/45.4 (33.9)				47.3 (35.3)/55.2 (41.2)				72.0 (53.7)/82.2 (61.8)			
No. of cylinders		4				4				6			
Bore x stroke mm (in.)		95 x 115 (3.74 x 4.53)				95 x 115 (3.74 x 4.53)				95 x 115 (3.74 x 4.53)			
Piston displacement ltr. (cu.in.)		3.26 (199)				3.26 (199)				4.89 (298)			
Aspiration		Natural				Natural				Natural			
Electrical system	Starter motor	12V, 2.2kW				24V, 2.8kW				24V, 2.8kW			
	Alternator	12V, 35A				24V, 13A (24V, 15A*)				24V, 13A (24V, 15A*)			
	Battery	12V x 1 – 120Ah				24V (12V x 2) – 70Ah				24V (12V x 2) – 70Ah			
GENERATOR SET													
Capacity ltr. (U.S. gal)	Coolant	10 (2.6)				10 (2.6)				17 (4.5)			
	Lubricant	8 (2.1)				8 (2.1)				12.5 (3.3)			
	Fuel tank	75 (19.8)/100 (26.4)*				85 (22.5)/100 (26.4)*				120 (31.7)/125 (33.0)*			
Dry weight kg(lb)	Bonnet & Soundroof Type	990 (2.183)				1050 (2.315)				1270 (2.800)			
	Bonnet Type	810 (1.786)				850 (1.874)				1200 (2.646)			
	Non-Bonnet Type	710 (1.565)				750 (1.653)				1080 (2.381)			
Dimensions (L x W x H) mm (ft. in.)	Bonnet & Soundproof Type	1850 x 880 x 1200 (6'1" x 2'11" x 3'11")				1900 x 880 x 1250 (6'3" x 2'11" x 4'1")				2420 x 880 x 1250 (7'11" x 2'11" x 4'1")			
	Bonnet Type	1700 x 1020 x 1405 (5'7" x 3'4" x 4'7")				1720 x 1020 x 1420 (5'8" x 3'4" x 4'8")				2050 x 1020 x 1565 (6'9" x 3'4" x 5'2")			
	Non-Bonnet Type	1700 x 880 x 1405 (5'7" x 2'11" x 4'7")				1720 x 880 x 1420 (5'8" x 2'11" x 4'8")				2050 x 880 x 1565 (6'9" x 2'11" x 5'2")			

* For Bonnet & Soundproof Type

NOTES:

Output Rating

(1) Prime rating applies to continuous power supply. Intermittent overload up to the standby rating is allowable.

(2) Standby rating is applicable for supplying electric power in the event of normal utility power failure. No overload capability is available for this rating. This rating may be used for continuous service as long as the emergency lasts. (Approximately 1 hour.)

(3) Performance: Horsepower represents performance measured under the ambient conditions of S.A.E. J1349 standards. • Barometric pressure: 743 mmHg • Temperature: 25°C (77°F) • Water vapor pressure: 7.5 mmHg (0.30" Hg.)

http://www.adultpdf.com
Created by TIFF To PDF trial version, to remove this mark, please register this software.

Item \ Model		EG85BS-1				EG125BS-2				EG150BS-5			
	Bonnet & Soundproof Type	EG85BS-1				EG125BS-2				EG150BS-5			
	Bonnet Type	EG85B-1				EG125B-2				EG150B-5			
	Non-Bonnet Type	EG85-1				EG125-2				EG150-5			
GENERATOR													
Rated output	Frequency	50Hz		60Hz		50Hz		60Hz		50Hz		60Hz	
		kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW
	Prime	70.0	56.0	85.0	68.0	100.0	80.0	125.0	100.0	125.0	100.0	150.0	120.0
	Standby	77.0	61.6	94.0	75.2	110.0	88.0	138.0	110.4	138.0	110.4	165.0	132.0
ENGINE		ENGINE											
Model		Komatsu S6D95L-1				Komatsu S6D105-1				Komatsu SA6D110-1			
Flywheel horsepower HP (kW)	Prime (at 1500/1800 RPM)	85.8 (64.0)/99.6 (74.3)				131.0 (97.9)/155.0 (116.0)				151 (113)/180 (135)			
	Standby (at 1500/1800 RPM)	95.6 (71.2)/111.4 (83.2)				138.0 (103.0)/163.0 (121.0)				171 (127)/204 (152)			
No. of cylinders		6				6				6			
Bore x stroke mm (in.)		95 x 115 (3.74 x 4.53)				105 x 125 (4.13 x 4.92)				110 x 125 (4.33 x 4.92)			
Piston displacement ltr. (cu.in)		4.89 (298)				6.49 (396)				7.13 (435)			
Aspiration		Turbocharged				Turbocharged				Tubocharged, aftercooled			
Electrical system	Starter motor	24V, 2.8kW				24V, 5.5kW				24V, 5.5kW			
	Alternator	24V, 13A (24V, 15A*)				24V, 13A (24V, 25A*)				24V, 13A (24V, 25A*)			
	Battery	24V (12V x 2) – 70Ah				24V (12V x 2) –120Ah				24V(12 V x 2)–150Ah			
GENERATOR SET		GENERATOR SET											
Capacity ltr. (U.S. gal)	Coolant	30 (7.9)				30 (7.9)				40 (10.6)			
	Lubricant	12.5 (3.3)				24 (6.3)				24 (6.3)			
	Fuel tank	160 (42.3)/200 (52.8)*				260 (68.7)/250 (66.1)*				290 (76.6)/280 (74.0)*			
Dry weight kg (lb)	Bonnet & Soundproof Type	1720 (3,792)				2420 (5,336)				2760 (6,085)			
	Bonnet Type	1680 (3,704)				1880 (4,145)				2200 (4,851)			
	Non-Bonnet Type	1550 (3,417)				1700 (3,749)				1900 (4,190)			
Dimensions (L x W x H) mm (ft. in)	Bonnet & Soundproof Type	2800 x 1100 x 1400 (9'2" x 3'7" x 4'7")				3100 x 1100 x 1500 (10'2" x 3'7" x 4'11")				3350 x 1200 x 1500 (11' x 3'11" x 4'11")			
	Bonnet Type	2220 x 1240 x 1630 (7'3" x 4'1" x 5'4")				2550 x 1340 x 1835 (8'4" x 4'5" x 6')				2670 x 1340 x 2095 (8'9" x 4'5" x 6'10")			
	Non-Bonnet Type	2200 x 1100 x 1630 (7'3" x 3'7" x 5'4")				2550 x 1200 x 1835 (5'2" x 3'11" x 6')				2670 x 1200 x 2095 (8'9" x 3'11" x 6'10")			

* For Bonnet & Soundproof Type

http://www.adultpdf.com
Created by TIFF To PDF trial version, to remove this mark, please register this software.

Model / Item												
	Bonnet & Soundproof Type	EG220BS-1				EG275BS-1				–		
	Bonnet Type	EG220B-1				EG275B-1				EG300B-3		
	Non-Bonnet Type	EG220-1				EG275-1				EG300-3		
GENERATOR												
Rated output	Frequency	50Hz		60Hz		50Hz		60Hz		50Hz		60Hz	
		kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW
	Prime	195.0	156.0	220.0	176.0	230.0	184.0	275.0	220.0	250.0	200.0	300.0	24.0
	Standby	205.0	164.0	230.0	184.0	245.0	196.0	295.0	236.0	275.0	220.0	330.0	264.0
ENGINE												
Model		Komatsu S6D125-1				Komatsu SA6D125-1				Komatsu S6D155-4		
Flywheel horsepower HP (kW)	Prime (at 1500/1800 RPM)	230 (171)/255 (191)				269 (201)/321 (240)				349 (261)/407 (304)		
	Standby (at 1500/1800 RPM)	253 (189)/281 (210)				296 (221)/353 (263)				385 (287)/449 (335)		
No. of cylinders		6				6				6		
Bore x stroke mm (in.)		125 x 150 (4.92 x 5.91)				125 x 150 (4.92 x 5.91)				155 x 170 (6.10 x 6.69)		
Piston displacement ltr. (cu.in.)		11.04 (674)				11.04 (674)				19.26 (1.175)		
Aspiration		Turbocharged				Tubocharged, aftercooled				Tubocharged		
Electrical system	Starter motor	24V, 7.5kW				24V, 7.5kW				24V, 11kW		
	Alternator	24V, 13A (24V, 25A*)				24V, 13A (24V, 25A*)				24V, 13A		
	Battery	24V (12V x 2)–150Ah				24V (12V x 2)–150Ah				24V (12V x 2) – 200Ah		
GENERATOR SET												
Capacity ltr. (U.S. gal)	Coolant	45 (11.9)				46 (12.1)				85 (22.4)		
	Lubricant	36 (9.5)				32 (8.5)				70 (19.5)		
	Fuel tank	300 (79.2)				300 (79.2)/490 (129.5)*				400 (105.7)		
Dry weight kg(lb)	Bonnet & Soundroof Type	3880 (8,555)				4950 (10,913)				–		
	Bonnet Type	3100 (6,836)				3700 (8,157)				5600 (12.346)		
	Non-Bonnet Type	2780 (6,129)				3400 (7,496)				4600 (10.141)		
Dimensions (L x W x H) mm (ft. in.)	Bonnet & Soundproof Type	3750 x 1300 x 1750 (12'4" x 4'3" x 5'9")				4000 x 1400 x 2000 (6'5" x 4'7" x 6'8")				–		
	Bonnet Type	2970 x 1350 x 1987 (9'9" x 4'5" x 6'6")				2980 x 1415 x 2087 (9'9" x 4'8" x 6'10")				3730 x 1460 x 2420 (12'3" x 4'9" x 7'11")		
	Non-Bonnet Type	2970 x 1210 x 1740 (9'9" x 3'11" x 5'9")				2980 x 1270 x 1845 (9'9" x 4'2" x 6'1")				3730 x 1310 x 1960 (12'3" x 4'4" x 6'5")		

* For Bonnet & Soundproof Type

http://www.adultpdf.com
Created by TIFF To PDF trial version, to remove this mark, please register this software.

Model / Item												
	Bonnet & Soundproof Type	–				**EG380BS-1**				–		
	Bonnet Type	**EG350B-1**				–				**EG480B-1**		
	Non-Bonnet Type	**EG350-1**				–				**EG480-1**		
GENERATOR												
Rated output	Frequency	50Hz		60Hz		50Hz		60Hz		50Hz		60Hz	
		kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW
	Prime	300.0	240.0	350.0	280.0	330.0	264.0	380.0	304.0	430.0	344.0	480.0	384.0
	Standby	330.0	264.0	385.0	308.0	–	–	–	–	473.0	378.4	528.0	422.4
ENGINE													
Model		Komatsu S6D155-4				Komatsu SA6D140-B-1				Komatsu SA6D170-B-1			
Flywheel horsepower HP (kW)	Prime (at 1500/1800 RPM)	349 (261)/407 (304)				388 (290)/445 (331)				498 (372)/557 (416)			
	Standby (at 1500/1800 RPM)	385 (287)/449 (335)				–				548 (409)/613 (458)			
No. of cylinders		6				6				6			
Bore x stroke mm (in.)		155 x 170 (6.10 x 6.69)				140 x 165 (5.51 x 6.50)				170 x 170 (6.69 x 6.69)			
Piston displacement ltr. (cu.in)		19.26 (1.175)				15.24 (930)				23.15 (1,413)			
Aspiration		Tubocharged				Tubocharged, aftercooled				Tubocharged, aftercooled			
Electrical system	Starter motor	24V, 11kW				24V, 7.5kW				24V, 7.5kW x 2			
	Alternator	24V, 13A				24V, 25A				24V, 13A			
	Battery	24V (12V x 2) – 200Ah				24V (12V x 2) – 200Ah				24V (12V x 2)–200Ah			
GENERATOR SET													
Capacity ltr. (U.S. gal)	Coolant	85 (22.4)				63 (16.6)				80 (21.1)			
	Lubricant	70 (18.5)				38 (10.0)				119 (31.4)			
	Fuel tank	400 (105.7)				490 (129.5)				950 (251.0)			
Dry weight kg (lb)	Bonnet & Soundproof Type	–				5800 (12.789)				–			
	Bonnet Type	5800 (12.787)				–				6990 (15,410)			
	Non-Bonnet Type	4800 (10.580)				–				6450 (14,220)			
Dimensions (L x W x H) mm (ft. in)	Bonnet & Soundproof Type	–				4400 x 1440 x 2100 (14'5" x 4'9" x 6'11")				–			
	Bonnet Type	3730 x 1460 x 2420 (12'3" x 4'9" x 7'11")				–				3850 x 1700 2725 (12'1" x 5'7" x 8'11")			
	Non-Bonnet Type	3730 x 1310 x 1960 (12'3" x 4'4" x 6'5")				–				3850 x 1700 x 2460 (12'8" x 5'7" x 8'11")			

* For Bonnet & Soundproof Type

http://www.adultpdf.com
Created by TIFF To PDF trial version, to remove this mark, please register this software.

Model / Item												
	Bonnet & Soundproof Type	**EG500BS-1**				**—**				**EG600BS-1**			
	Bonnet Type	**—**				**EG580B-1**				**—**			
	Non-Bonnet Type	**—**				**EG580-1**				**—**			
GENERATOR													
Rated output	Frequency	50Hz		60Hz		50Hz		60Hz		50Hz		60Hz	
	Prime	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW
		450.0	360.0	500.0	400.0	530.0	424.0	580.0	464.0	550.0	440.0	600.0	480.0
	Standby	473.0	378.4	528.0	422.4	583.0	466.4	638.0	510.4	583.0	466.4	638.0	510.4
ENGINE													
Model		Komatsu SA6D170-B-1				Komatsu SA6D170-A-1				Komatsu SA6D170-A-1			
Flywheel horsepower HP (kW)	Prime (at 1500/1800 RPM)	513 (383)/572 (427)				611 (456)/673 (503)				630 (470)/688 (513)			
	Standby (at 1500/1800 RPM)	548 (409)/613 (458)				672 (502)/740 (553)				672 (502)/740 (553)			
No. of cylinders		6				6				6			
Bore x stroke mm (in.)		170 x 170 (6.69 x 6.69)				170 x 170 (6.69 x 6.69)				170 x 170 (6.69 x 6.69)			
Piston displacement ltr. (cu.in.)		23.15 (1,413)				23.15 (1,413)				23.15 (1.413)			
Aspiration		Tubocharged, aftercooled				Tubocharged, aftercooled				Tubocharged, aftercooled			
Electrical system	Starter motor	24V, 7.5kW x 2				24V, 7.5kW x 2				24V, 7.5kW x 2			
	Alternator	24V, 13A				24V, 13A				24V, 13A			
	Battery	12V (12V x 2)—200Ah				24V (12V x 2)—200Ah				24V (12V x 2)—200Ah			
GENERATOR SET													
Capacity ltr. (U.S. gal)	Coolant	80 (21.1)				80 (21.1)				80 (21.1)			
	Lubricant	119 (31.4)				119 (31.4)				119 (31.4)			
	Fuel tank	490 (129.5)				950 (251.0)				490 (129.5)			
Dry weight kg(lb)	Bonnet & Soundroof Type	8780 (19,360)				—				9280 (20,462)			
	Bonnet Type	—				7200 (15,873)				—			
	Non-Bonnet Type	—				6500 (14,330)				—			
Dimensions (L x W x H) mm (ft. in.)	Bonnet & Soundproof Type	5000 x 1650 x 2400 (16'5" x 5'5" x 7'10")				3850 x 1700 x 2725 (12'8" x 5'7" x 8'11")				5200 x 1650 x 2400 (17'1" x 5'1" x 7'10")			
	Bonnet Type	—				3850 x 1700 x 2460 (12'8" x 5'7" x 8'1")				—			
	Non-Bonnet Type	—				—				—			