

経歴 Rev.

0

ENGINE SPECIFICATIONS

Engine Model	Engine series 3CA1(Tier-4)
	Model No. 3CA1-GZG01
Customer	EXPORT
Application	Generator
Drawing No.	C1-1021-001-0

Symbol	Date	Revision Record	Issue No.
0	6 th Nov. 2008	For confirmation of prototype engine specifications.	

ISUZU MOTORS LIMITED
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Engine Specifications

Model No. 3CA1-GZG01

Rev.

0

Engine Model	Model No. 3CA1-GZG01
Application	Generator
Approved exhaust emission cert.	EPA, ARB-OR : Tier-4
Engine type	Four cycle, water cooled, In-line, Indirect injection type
No. of cylinders-bore x stroke	3 - 70.0 mm x 74.0 mm
Total piston displacement	0.854 L
Compression ratio	23.4 to 1

Engine performance	Rating
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Test conditions	Standard atmospheric condition
Conforming standard JPN;JIS D0006-1 US;SAEJ1349 EU;ISO15550	With AC generator and cooling fan With air cleaner and exh. silencer

Rated Output	: 6.7 kW / 1500 min ⁻¹ : 8.0 kW / 1800 min ⁻¹
Continuous rating	: 6.1 kW / 1500 min ⁻¹ : 7.3 kW / 1800 min ⁻¹
Fuel consumption at rated.	: 268 g/kw.h
No load max. speed	: 1915 ± 25 min ⁻¹
Low idle speed	: 1500 ± 25 min ⁻¹
Type of fuel	: Diesel fuel only (JPN:JIS-NO.2, US:ASTM-2D, EU:EN590)
Engine dry weight	: Approx. 102 kg
Dimensions	: L 529.0 x W 463.0 x H 668.0 (With cooling fan)
Firing order	: 1 - 3 - 2 - 1
Rotating direction	: Clockwise viewed from cooling fan

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Fuel system

Fuel injection pump	Bosch in-Line
Fuel injection nozzle	Hole type
Fuel filter	Paper element type
Governor type	Centrifugal-all speed governor

Lubrication system

Lubricating system	Forced feed type
Oil grade	API class CD, SAE grade 10W30
Lubricating pump	Trochoid pump type
Oil filter	Paper element
Oil capacity	max : 2.8 L min : 1.5 L
Oil pressure(reference)	3.5 kgf/cm ² at rated output

Cooling system

Heat exchanger	None
Coolant pressure	max. 0.9 kgf/cm ²
Cooling fan	Dia. 310 - 5 - pusher, crank pulley/fan pulley = 110/100
Cooling water	0.9 L (engine only)

Air cleaner

Installed(4 inch)

Breather system

Closed type

Starting aid system

Glow plug

Starter

12V - 1.0kW

Generator

12V - 14A

Allowable inclination angle

Longitudinal : 30(25), Lateral : 30(25)
intermitted, (continuous)

Fuel injection timing

FID 16

Engine color

Black

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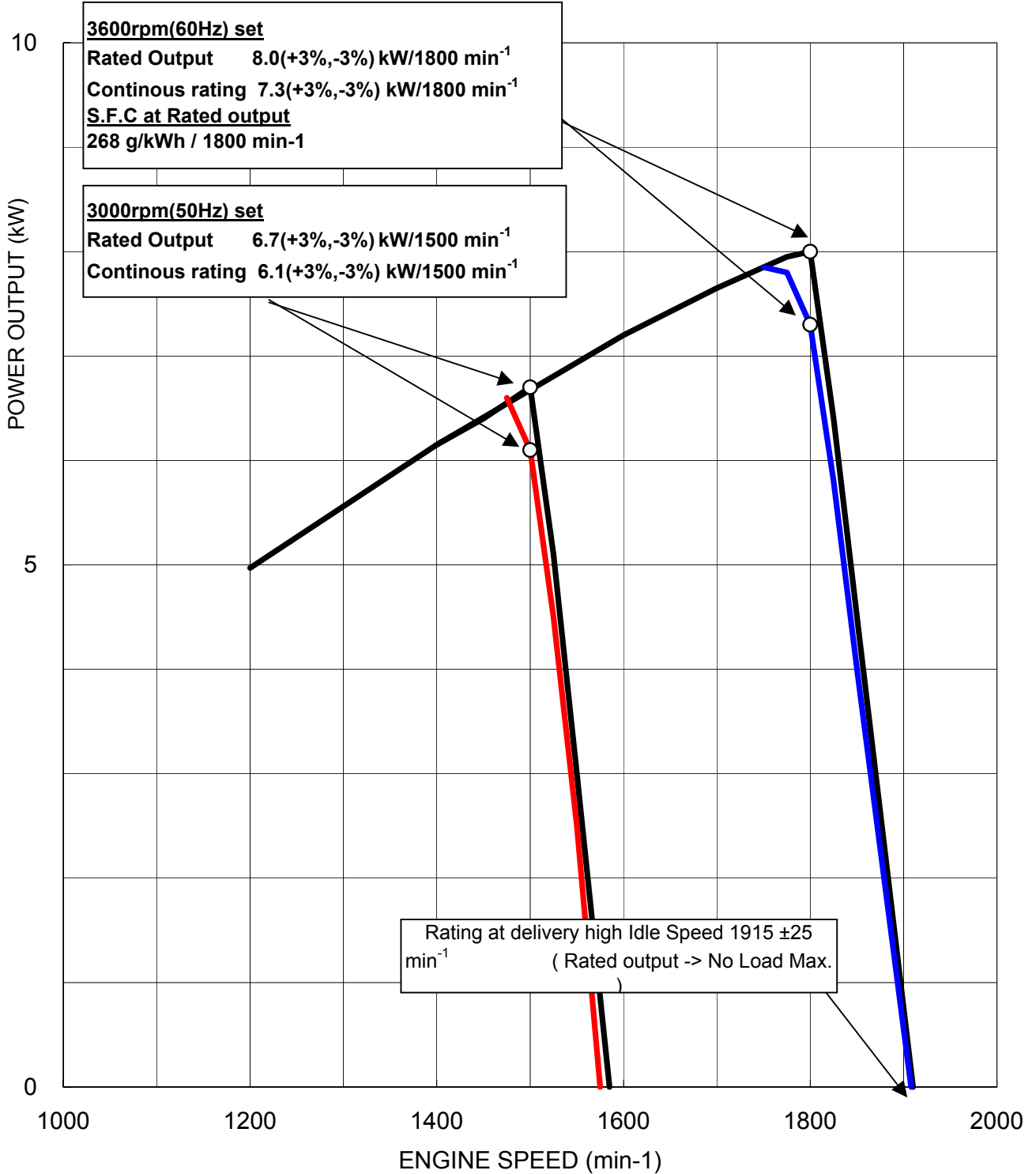
Loose parts

No.	Parts No.	Item	Qty	Remarks
1	Z29942-07760	Label,Fuel oil caution	1	
2	586400-6330	Gasket, silencer	1	
3	586400-0240	Pump, fuel feed	1	
4	586400-8170	Separator assy, water	1	
5	586400-0550	Diode	1	
6	586400-0560	Relay assy, glow	1	
7	586400-8120	Timer, glow	1	
8	586400-2190	Timer, section 1	1	
9	586400-0250	LIMITER, CURRENT 20A	1	

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**3CA1-GZG01(Tier-4)
ENGINE PERFORMANCE
CURVE**

CONDITIONS	RATING
ATMOSPHERIC CONDITION	Standard: JIS D0006 Standard: SAE 1349 NET (with Fan)
RUN IN	0.1hr
PULLEY RATIO	110/100=1.1
COOLING FAN	With (Dia.310-pusher)
AIR CLEANER	With
ALTERNATOR	With
EXHAUST SILENCER	With



Engine specifications Revision chart

Customer : EXPORT

Engine Model : 3CA1-GZG01

Application : Generator

Rev. No.	IS No.	Date	Page	Item	Previous	Current	Description (Reason of change)
0	IS-08-183-0	6th Nov. '08		For confirmation of prototype engine specifications			

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**3CA1-GZG01(Tier-4)
ENGINE PERFORMANCE
CURVE**

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	Standard: SAE 1349 NET (with Fan)
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