経歴 Rev.

0

ENGINE SPECIFICATIONS

Engine Model	Engine series	3CE1(Stage 3A / Interim Tier4)
	Model No.	3CE1-BGZG1
Customer	EXPORT	
Application	Generator	
Drawing No.	C1-1024-005-0)

Sy	/mbol	Date		Revision Record		Issue No.	
0	: 24	I th April 2008	:	For confirmation of prototype engine specifications.	:		
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ISUZU MOTORS LIMITED Powertrain Business Dept.

Manager

Prepared

H. Ogawa

No. IS-08-053-0 (2/5)

Engine Specifications Model No. 3CE1-BGZG1 Rev. 0

Engine Model No. 3CE1-BGZG1

Application Generator

Approved exhaust emission cert. EPA, ARB-OR Tier-3 (Intermidiate Tier4)

Engine type Four cycle, water cooled, In-line, direct injection type

No. of cylinders-bore x stroke 3 - 88.0 mm x 90.0 mm

Total piston displacement 1.642 L

Compression ratio 20 to 1

Engine performance Rating

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 : 13.6 kW / 1500 min⁻¹

: 16.3 kW / 1800 min⁻¹

Continuous rating : 12.3 kW / 1500 min⁻¹

: 14.8 kW / 1800 min⁻¹

Fuel consumption at rated. : 249 g/kw.h

No load max. speed : 1895±25 min⁻¹

Low idle speed : 1200±25 min⁻¹

Type of fuel : Diesel fuel only (JPN:JIS-NO.2, US:ASTM-2D, EU:EN590)

Engine dry weight : Approx. 158 kg

Dimensions : L 619.0 x W 528.0 x H 682.0 (With cooling fan)

Firing order : 1 - 3 - 2 - 1

Rotating direction : Clockwise viewed from cooling fan

No. IS-08-053-0 (3/5)

Engine Specifications Model No. 3CE1-BGZG1 Rev. 0

Fuel system

Fuel injection pump Distributortype 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: 6.7 L min: 3.9 LOil pressure(reference) $4.0 kgf/cm^2$ at rated output $0.6 kgf/cm^2$ at low idle

Cooling system

Heat exchanger None

Coolant pressure max. 0.9 kgf/cm²

Cooling fan Dia.360 - 6 blades - Pusher, crank pulley/fan pulley = 120/90

Cooling water 2.0 L (engine only)

Air cleaner None

Breather system Closed type

Starting aid system Glow plug

Starter 12V - 1.4kW

Generator 12V - 40A

Allowable inclination angle Longitudinal: 30(25), Lateral: 30(25)

intermitted, (continuous)

Fuel injection timing BTDC 2 (± 0.5)

Engine color Black

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Engine Specifications Model No. 3CE1-BGZG1 Rev. 0

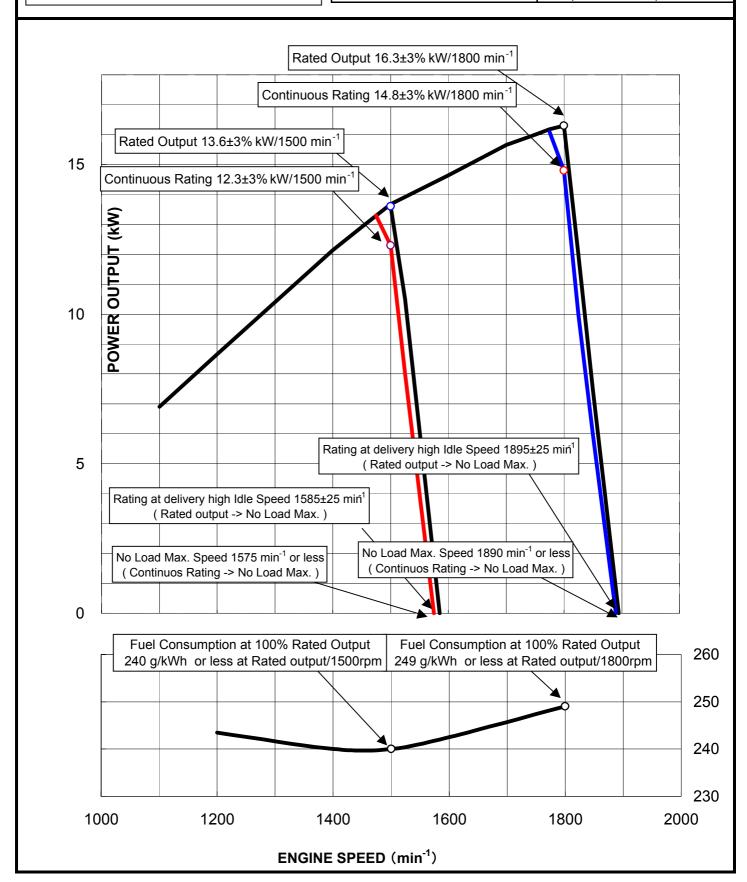
Loose parts

No.	Parts No.	Item	Qty	Remarks	
1	Z14110-07760	LABEL, FUEL OIL CAUT	1		
2	586400-1420	Gasket, silencer	1		
3	586400-0560	Relay assy, glow	1		
4	586400-2190	Timer 1 sec	1		
5	586400-1240	Timer, glow plug	1		
6	586400-0550	Diode	1		
7	586400-0240	Pump, feed pump	1		
8	586400-0830	Water separator	1		

ISUZU

3CE1-BGZG1(Interim Tier-4) ENGINE PERFORMANCE CURVE

	No. IS-08-053-0	Rev.0			
CONDITIONS	RATING	RATING			
Atmosphoric conditons	Standard: JIS D0006				
Atmospheric conditions	Standard: SAE 1349 NET				
Fan speed ratio	120/90=1.333	120/90=1.333			
Cooling fan	With (φ360-6-Pusher	With (φ360-6-Pusher)			
Air cleaner	With (5 inch)	With (5 inch)			
Alternator	With (No load)	With (No load)			
Exh. Silencer	With (Isuzu standar	With (Isuzu standard)			



Engine specifications Revision chart

Customer : EXPORT

Rev. No.	IS No.	Date	Page	ltem	Previous	Current	Description (Reason of change)
0				firmation of prototype engine spec			