

# EXHAUST EMISSION DATA SHEET

## MQ POWER GENERATOR SET

Model: DCA20SPXU2



The engine used in this generator set is certified to comply with United States EPA Tier 4i and CARB Mobile Off-Highway emission regulations.

### ENGINE DATA

<b>Manufacturer:</b> ISUZU	<b>Bore:</b> 3.35 in. (85 mm)
<b>Model:</b> 4LE2	<b>Stroke:</b> 3.78 in. (96 mm)
<b>Type:</b> 4-Cycle, In-Line, 4-cylinder, Diesel	<b>Displacement:</b> 133 cid (2.18 liters)
<b>Aspiration:</b> Naturally Aspirated. Direct Injection	<b>Compression Ratio:</b> 18:1

### PERFORMANCE DATA

SAE Gross HP @ 1800 RPM (60 Hz)	34
Rated Load Fuel Consumption (gal/Hr)	1.66
Rated Load Exhaust Gas Flow (cfm)	152
Rated Load Exhaust Gas Temperature (°F)	1004

United States EPA - Mobile Off-Highway Tier 4i Limits - 25.5 ≤ BHP ~ < 49.6 BHP

Criteria Pollutant	Emission Requirements	Certified Engine Emissions
NOx (Oxides of Nitrogen as NO2)	N/A gr/bhp-hr	N/A gr/bhp-hr
HC (Total Unburned Hydrocarbons)	N/A gr/bhp-hr	N/A gr/bhp-hr
NOx + HC (Combined)	5.59 gr/bhp-hr	4.92 gr/bhp-hr
CO (Carbon Monoxide)	4.10 gr/bhp-hr	1.49 gr/bhp-hr
PM (Particulate Matter)	0.22 gr/bhp-hr	0.19 gr/bhp-hr

<b>EPA Engine Family:</b>	CSZXL02.2VNB	EPA Flex Program
<b>EPA Certificate of Conformance:</b>		
<b>ARB Executive Order:</b>	U-R-006-0381	
<b>Effective Date:</b>	Model Year 2013	

*Note: Engine operation with excessive air intake or exhaust restriction beyond factory published maximum limits, or with improper service maintenance, may result in higher emission levels.*

<b>California Environmental Protection Agency</b> <b>Air Resources Board</b>	ISUZU MOTORS LIMITED	<b>EXECUTIVE ORDER U-R-006-0381</b> New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

**IT IS ORDERED AND RESOLVED:** That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment under the flexibility program provisions. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	FLEXIBILITY PROGRAM ENGINE FAMILY NAME(S)
2013	See Attachment


**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2423, subpart (d).

**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

**This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.**

Executed at El Monte, California on this 26<sup>th</sup> day of November 2012.

  
 Annette Hebert, Chief  
 Mobile Source Operations Division

Engine Information-Table 1B

Non-Flex Certification Engine Information					Flex Engine Information			
Model Year	Executive Order	Engine Family	Non-Flex US Sales	Non-Flex CA Sales	Flex Model Year	Estimated US Flex Production	Estimated CA Flex Production	Power Category
2010	U-R-006-0329	ASZXL05.2HXA			2013			130 ≤ kW ≤ 560
2010	U-R-006-0332	ASZXL07.8HXA			2013			130 ≤ kW ≤ 560
2010	U-R-006-0333	ASZXL07.8HXB			2013			130 ≤ kW ≤ 560
2010	U-R-006-0334	ASZXL09.8HXA			2013			130 ≤ kW ≤ 560
2010	U-R-006-0335	ASZXL09.8HXB			2013			130 ≤ kW ≤ 560
2010	U-R-006-0336	ASZXL15.7HXA			2013			130 ≤ kW ≤ 560
2010	U-R-006-0337	ASZXL15.7HXB			2013			130 ≤ kW ≤ 560
2011	U-R-006-0345	BSZXL03.0IXA			2013			56 ≤ kW < 130
2011	U-R-006-0346	BSZXL03.0JTA			2013			56 ≤ kW < 130
2011	U-R-006-0347	BSZXL03.0IXA			2013			56 ≤ kW < 130
2011	U-R-006-0348	BSZXL03.0IXB			2013			56 ≤ kW < 130
2011	U-R-006-0350	BSZXL05.2IXA			2013			56 ≤ kW < 130
2011	U-R-006-0351	BSZXL05.2IXB			2013			56 ≤ kW < 130
2012	U-R-006-0361	CSZXL02.2VNB			2013			19 ≤ kW < 56
2012	U-R-006-0360	CSZXL02.2VNA			2013			19 ≤ kW < 56
2012	U-R-006-0362	CSZXL02.2VNC			2013			19 ≤ kW < 56
2012	U-R-006-0363	CSZXL02.2VTB			2013			19 ≤ kW < 56
2012	U-R-006-0358	CSZXL02.2UTA			2013			19 ≤ kW < 56
2012	U-R-006-0359	CSZXL02.2UYA			2013			19 ≤ kW < 56
2012	U-R-006-0364	CSZXL03.0UTA			2013			19 ≤ kW < 56
2012	U-R-006-0365	CSZXL03.0UTB			2013			19 ≤ kW < 56