DCA20SPXU4F

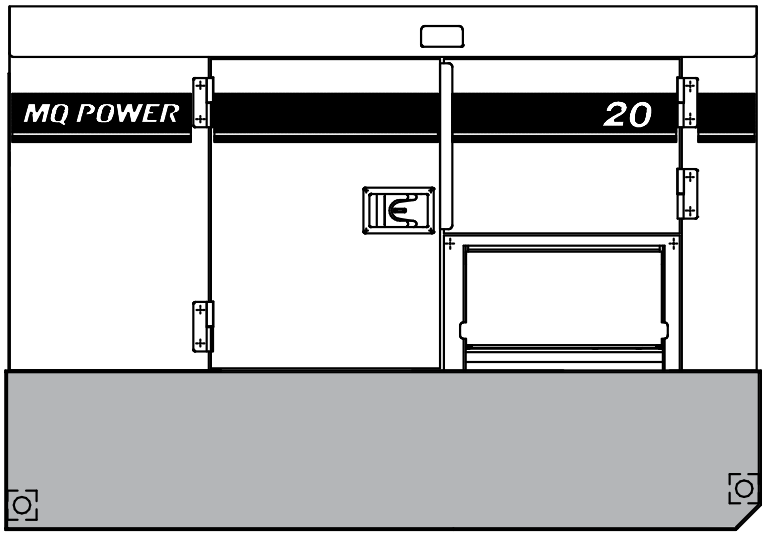
MQ POWER Series Generator

WhisperWatt™

Prime Rating — 20 kW (20 kVA)

Standby Rating — 22 kW (22 kVA)

Single-Phase, 60 Hertz, 1.0 PF



STANDARD FEATURES

- Heavy duty, 4-cycle, direct injection, turbocharged, EGR, DOC, diesel engine provides maximum reliability.
- Brushless alternator reduces service and maintenance requirements and meets temperature rise standards for Class H insulation systems.
  - Open delta excitation design provides virtually unlimited excitation for maximum motor starting capability.
  - Automatic voltage regulator (AVR) provides precise regulation.
- Electronic Governor Control — isochronous control, maintains frequency to within ±0.25% from no load to full load.
- Full load acceptance of standby nameplate rating in one step (NFPA 110, para 5-13.2.6).
- Sound attenuated, weather resistant, steel housing provides operation at 65 dB(A) at 23 feet. Fully lockable enclosure allows safe unattended operation.
- Internal fuel tank with direct reading of fuel gauge.
- E-coat and powder coat paint provides durability and weather protection.
- Fuel/water separator removes condensation from fuel for extended engine life. Panel mounted alarm light included.
- ECU750 — automatic CANBUS engine control with LED status indicator lights.
- Automatic start/stop control — automatically starts the generator set during a commercial power failure when used in conjunction with a transfer switch.
- Complete engine analog instrumentation includes DC ammeter, oil pressure gauge, water temp. gauge, fuel level gauge, tachometer/hour meter, preheat indicator, and emergency shutdown monitors.
- Complete generator analog instrumentation includes voltage regulator control, ammeter phase selector switch, voltmeter phase selector switch, AC voltmeter, AC ammeter, frequency meter, panel light, and circuit breaker.
- Automatic safety shutdown system monitors the water temperature, engine oil pressure, overspeed and overcrank. Warning lights indicate abnormal conditions.
- Complete power panel. Fully covered; single-phase terminals and single phase receptacles allow fast and convenient hookup for most applications including temporary power boxes, tools and lighting equipment. All are NEMA standard.
- EPA emissions certified - Tier 4 final emissions compliant.
- Spill containment — Bunded design protects environment by capturing up to 124% of engine fluids.

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SPECIFICATIONS

Generator Specifications	
Design	Revolving field, self-ventilated Drip-proof, single bearing
No. of Poles	4-pole
Excitation	Brushless with AVR
Standby Output	22 KW (27.5 kVA)
Prime Output	20 KW (25 kVA)
Generator RPM	1800
Voltage — 1Ø	120/240
Armature Connection	Series
Voltage Regulation (No load to full load)	±0.5%
Power Factor	1.0
Frequency	60 Hz
Frequency Regulation: No Load to Full Load	Isochronous under varying loads from no load to 100% rated load
Frequency Regulation: Steady State	±0.25% of mean value for constant loads from no load to full load
Insulation	Class H
Sound Level dB(A) Full load at 23 feet	65

Engine Specifications	
Make / Model	Isuzu / 4LE2T
Emissions	EPA Tier 4 Final Certified
Starting System	Electric
Design	4-cycle, Water cooled, Direct injection, EGR, DOC
Displacement	133.0 in^3 (2179 cc)
No. cylinders	4
Bore x Stroke	85 mm x 96 mm
Gross Engine Power Output	40.2 hp (30 kW)
BMEP	133 psi (918 kPa)
Piston Speed	1134 ft/min (5.76 m/s)
Compression Ratio	17.6 : 1
Engine Speed	1800 rpm
Overspeed Limit	2070 rpm
Oil Capacity	2.8 gal (10.5 L)
Battery	12V 53Ah x 1

Fuel System		
Recommended Fuel	ASTM-D975-No.1 & No.2-D	
Maximum Fuel Flow (per hour)	2.3 gallons (8.8 liters)	
Maximum Inlet Restriction (Hg)	6.8 in. (173 mm)	
Fuel Tank Capacity	41.7 gallons (158 liters)	
Fuel Consumption	**gph**	**lph**
At full load	1.62	6.12
At 3/4 load	1.26	4.77
At 1/2 load	0.94	3.57
At 1/4 load	0.67	2.52

Cooling System	
Fan Load	0.67 hp (0.5 kW)
Coolant Capacity (with radiator)	2.3 gallons (8.8 liters)
Coolant Flow Rate (per minute)	20.1 gallons (76.0 liters)
Heat Rejection to Coolant (per minute)	1479 Btu (1.56 MJ)
Maximum Coolant Friction Head	14.5 psi (100 kPa)
Maximum Coolant Static Head	3.35 feet (1.02 meters)
Ambient Temperature Rating	104°F (40°C)

Air	
Combustion Air	109 cfm (3.10 m^3/min)
Maximum Air Cleaner Restriction	25 in. H_2O (6.2 kPa)
Alternator Cooling Air	388 cfm (11.0 m^3/min)
Radiator Cooling Air	1420 cfm (40.2 m^3/min)

Exhaust System	
Gas Flow (full load)	148 cfm (4.2 m^3/min)
Gas Temperature	847°F (453°C)
Maximum Back Pressure	30.1 in. H_2O (7.5 kPa)

Amperage	
Rated Voltage	**Maximum Amps**
1Ø 120 Volt	83 x 2
1Ø 240 Volt	83
Main Line Circuit Breaker Rating	90 Amps

WARRANTY*

Isuzu Engine

12 months from date of purchase or 2000 hours (whichever occurs first).

Generator

24 months from date of purchase or 2000 hours (whichever occurs first).

Trailer

12 months excluding normal wear items.

*Refer to the express written, one-year limited warranty sheet for additional information.

NOTICE

Generator is not intended for use in enclosed areas or where free flow of air is restricted.

Backfeed to a utility system can cause electrocution, shock and/or property damage. **DO NOT** connect to any building's electrical system except through an approved device.

Specifications are subject to change without notice.

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MQ POWER Series Generator

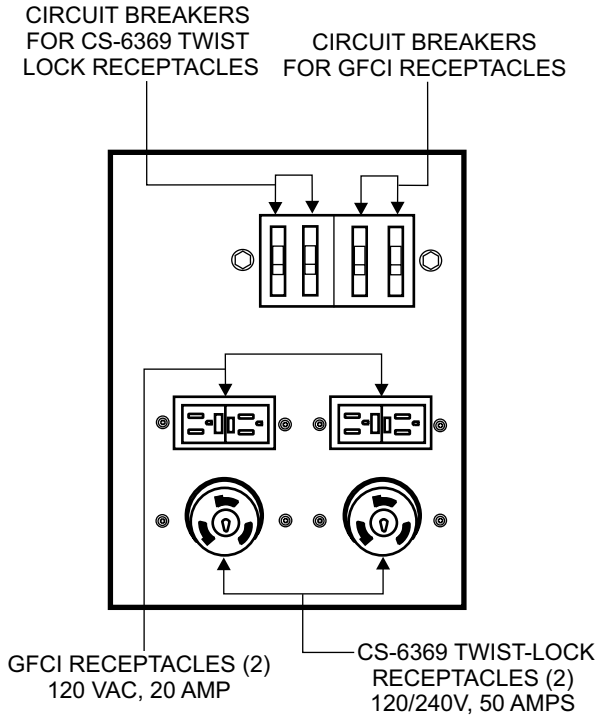
MQ POWER DECIBEL LEVELS

Our soundproof housing allows substantially lower operating noise levels than competitive design. WhisperWatts™ are at home on construction sites, in residential neighborhoods, and at hospitals — just about anywhere.

- 90 — Subway / truck traffic
- 80 — Average city traffic
- 70 — Inside car at 60 mph
- WhisperWatt™ at 23 feet
- 60 — Air conditioner at 20 feet
- 50 — Normal conversation

65.0 DECIBELS

GENERATOR OUTPUT PANEL



OPTIONAL GENERATOR FEATURES

- **Battery Charger** — provides fully automatic and self-adjusting charging to the generator's battery system.
- **Jacket Water Heater** — for easy starting in cold weather climates.
- **Special Batteries** — long life batteries provide extra engine cranking power.
- **Low Coolant Level Shutdown —** provides protection from critically low coolant levels. Includes control panel warning light.
- **Spring Isolators** — provides extra vibration protection for standby applications.
- **Trailer Mounted Package** — meets National Highway Traffic Safety Administration (NHTSA) regulations. Trailer is equipped with electric or hydraulic brakes with tandem axle configuration.

OPTIONAL CONTROL FEATURES

- **Emergency Stop Switch** — when manually activated shuts down generator in the event of an emergency.
- **Audible alarm** — alerts operator of abnormal conditions.

OPTIONAL OUTPUT CONNECTIONS

- **Pin and Sleeve Connectors** — provides industry standard connectors for all voltage requirements.
- **Output Cable** — available in any custom length and size configuration.

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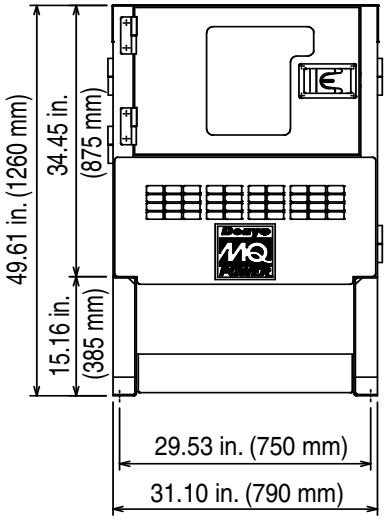
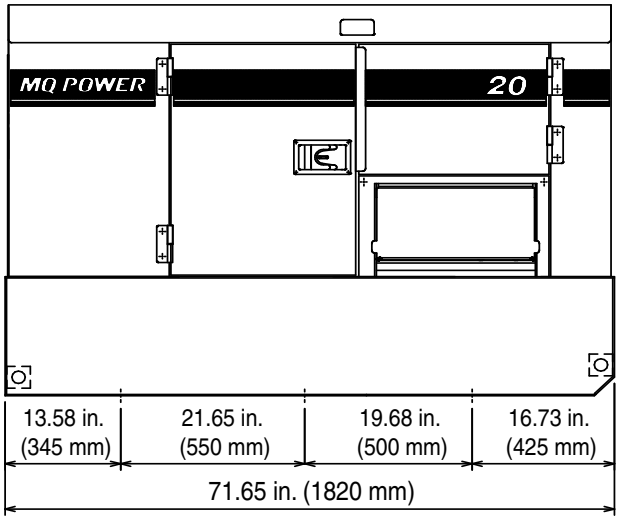
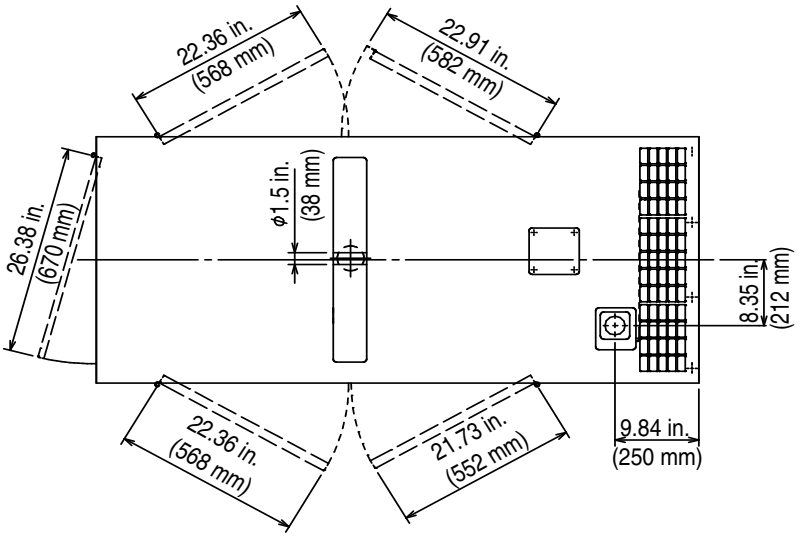
DIMENSIONS





Weight	
Dry Weight	1,797 lbs. (815 kg)
Wet Weight	2,138 lbs. (970 kg)
Max. Lifting Point Capacity	3,240 lbs. (1,470 kg)



Generator can be placed on MQ Power Model TRLR25US Trailer.

Manufactured by Denyo Co.

Your Multiquip dealer is:

Gonneville, Inc.
211 Calle Pintoresco Ste. #A
San Clemente, CA. 92672
949-248-7297
Sales@Gonneville.com | Gonneville.com

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DCA20SPXU4F Rev. #1 (07/22/15)

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EXHAUST EMISSION DATA SHEET

MQ POWER GENERATOR SET

Model: DCA-20SPXU4F

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

ENGINE DATA

Manufacturer:	Isuzu	**Bore:**	3.35 in. (85 mm)
Model:	4LE2T	**Stroke:**	3.78 in. (96 mm)
Type:	4-Cycle, In-Line, 4-Cylinder, Diesel	**Displacement:**	133 cid (2.2 liters)
Aspiration:	Turbocharger, ECM, EGR,DOC Electronic Direct Injection	**Compression Ratio:**	17.6:1

PERFORMANCE DATA

SAE Gross HP @ 1800 RPM (60 Hz)	40.2
Rated Load Fuel Consumption (gal/Hr)	1.62
Rated Load Exhaust Gas Flow (cfm)	148
Rated Load Exhaust Gas Temperature (ºF)	847

United States EPA - Mobile Off-Highway Tier 4 Limits - 25≤ ~ <37 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)	N/A	gr/bhp-hr	N/A	gr/bhp-hr
CO (Carbon Monoxide)	4.10	gr/bhp-hr	0.022	gr/bhp-hr
PM (Particulate Matter)	0.022	gr/bhp-hr	0.022	gr/bhp-hr
NMHC (Non-Methane Hydrocarbons)	N/A	gr/bhp-hr	N/A	gr/bhp-hr
NMHC + NOx	3.50	gr/bhp-hr	2.68	gr/bhp-hr

EPA Engine Family:	ESZXL02.2ZTB
EPA Certificate of Conformance:	ESZXL02.2ZTB-001
ARB Executive Order:	U-R-006-0383
Effective Date:	Model Year 2014

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.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2014 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT OF 1990

OFFICE OF TRANSPORTATION AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: **Isuzu Motors Limited**
(U.S. Manufacturer or Importer)

Certificate Number: **ESZXL02.2ZTB-001**

Effective Date: 03/04/2013

Expiration Date: 12/31/2014

Byron J. Bunker, Division Director
Compliance Division

Issue Date: 03/04/2013

Revision Date: N/A

Model Year: 2014
Manufacturer Type: Original Engine Manufacturer
Engine Family: ESZXL02.2ZTB

Mobile/Stationary Indicator: Mobile
Emissions Power Category: 19<=kW<37
Fuel Type: Diesel
After Treatment Devices: Diesel Oxidation Catalyst
Non-after Treatment Devices: Electronic/Electric EGR - Cooled, Electronic Control, Engine Design Modification

Pursuant to Section 213 of the Clean Air Act (42 U.S.C. section 7547) and 40 CFR Part 1039, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following engines, by engine family, more fully described in the documentation required by 40 CFR Part 1039 and produced in the stated model year.

This certificate of conformity covers only those new compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 1039 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 1039.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 1039. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 1039.

This certificate does not cover engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

California Environmental Protection Agency **Air Resources Board**	ISUZU MOTORS LIMITED	EXECUTIVE ORDER U-R-006-0383 New Off-Road Compression-Ignition Engines

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. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2014	ESZXL02.2ZTB	2.2	Diesel	5000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Electronic Control Module, Exhaust Gas Recirculation, Diesel Oxidation Catalyst, Turbocharger, Electronic Direct Injection	Generator Set

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 4 Final	STD	N/A	N/A	4.7	5.5	0.03	N/A	N/A	N/A
		CERT	--	--	3.6	0.03	0.03	--	--	--

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 12th day of March 2013.

J. Lourenco

Annette Hebert, Chief
Mobile Source Operations Division