



# DCA40SSKU4F

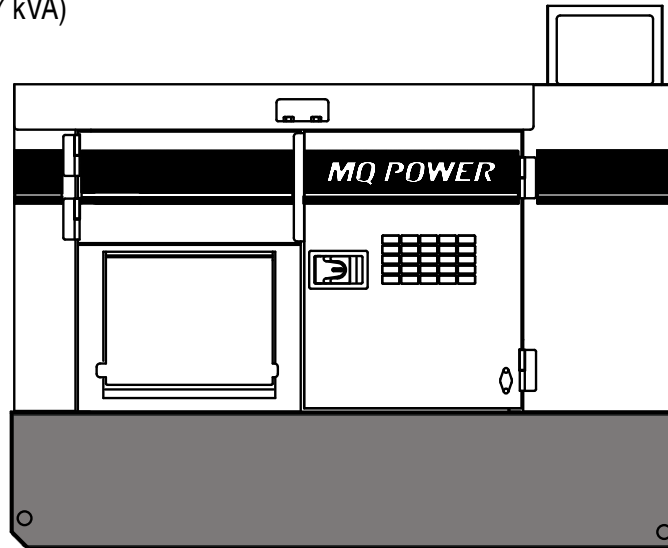
## MQ POWER Series Generator

### WhisperWatt™

Prime Rating — 28.8 kW (36 kVA)

Standby Rating — 29.7 kW (37 kVA)

Three-Phase, 60 Hertz, 0.8 PF



#### STANDARD FEATURES

- Heavy duty, 4-cycle, direct injection, turbocharged, 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 — maintains frequency to within  $\pm 0.25\%$  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 61 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 system provides durability and weather protection.
- Fuel/water separator removes condensation from fuel for extended engine life. Panel mounted alarm light included.
- Complete engine analog instrumentation includes fuel level gauge, hour meter, preheat indicator, and emergency shutdown monitors.
- Automatic Start/Stop Control — automatically starts the generator set during a commercial power failure when used in conjunction with a transfer switch.
- Complete generator analog instrumentation includes voltage regulator control, ammeter phase selector switch, AC voltmeter, AC ammeter, frequency meter, and circuit breaker.
- Power Balance™ Control — load management system comprised of an integral resistive load bank with controls, designed to constantly monitor generator load conditions to ensure that a preset load level is always maintained.
- Automatic safety shutdown system monitors the water temperature, engine oil pressure, overspeed and overcrank. Warning lights indicate abnormal conditions.
- Complete power panel. Fully covered; three-phase terminals and single phase receptacles allow fast and convenient hookup for most applications including temporary power boxes, tools and lighting equipment. The GFCI receptacles are NEMA 5-20, and the auxiliary outputs use CS6369 twist-lock receptacles.
- Simultaneous single and three-phase power.
- Voltage selector switch offers the operator a wide range of voltages that are manually selectable. Fine tuning of the output voltage can be accomplished by adjusting the voltage regulator control knob to obtain the desired voltage.
- EPA emissions certified — Tier 4 final emissions compliant.
- Engine fitted with DOC and DPF.
- Spill containment — banded design protects environment by capturing up to 132% of engine fluids.



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## MQ POWER Series Generator

### SPECIFICATIONS

Generator Specifications	
Design	Revolving field, self-ventilated Drip-proof, single bearing
No. of Poles	4-pole
Excitation	Brushless with AVR
Standby Output	29.7 KW (37 KVA)
Prime Output	28.8 KW (36 KVA)
Generator RPM	1800
Voltage - 3Ø	208, 220, 240, 416, 440, 480 V
Voltage - 1Ø	120, 127, 139, 240, 254, 277 V
Armature Connection	Star with Neutral/Zig Zag
Power Factor	0.8
Voltage Regulation (No load to full load)	±0.5%
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	61

Engine Specifications	
Make / Model	Kubota / V2403-CR-T
Emissions	EPA Tier 4 Final Certified
Starting System	Electric
Design	4-cycle, water cooled, direct injection, turbocharged, EGR, ECM, DOC, and DPF
Displacement	148.5 in <sup>3</sup> (2434 cc)
No. cylinders	4
Bore x Stroke	3.42 x 4.01 in. (87 x 102 mm)
Gross Engine Power Output	48.3 hp (36.0 kW)
BMEP	145 psi (1000 kPa)
Piston Speed	1209 ft./min. (6.14 m/s)
Compression Ratio	18.1:1
Engine Speed	1800 rpm
Overspeed Limit	2070 rpm
Oil Capacity	3.4 gallons (12.7 liters)
Battery	12V 53Ah x 1

Fuel System		
Recommended Fuel	ASTM-D975-No.1 & No.2-D*	
Maximum Fuel Flow (per hour)	2.6 gallons (9.8 liters)	
Maximum Inlet Restriction (Hg)	0.69 in. (17.5 mm)	
Fuel Tank Capacity	67.4 gallons (255 liters)	
<b>Fuel Consumption</b>	<b>gph</b>	<b>lph</b>
At full load	2.2	8.5
At 3/4 load	1.7	6.4
At 1/2 load	1.2	4.4
At 1/4 load	0.8	2.9

\* - Use ultra-low sulfur diesel fuel.

Exhaust System	
Gas Flow (full load)	234 cfm (6.6 m <sup>3</sup> /min)
Gas Temperature	939°F (504°C)
Maximum Back Pressure	21.3 in. H <sub>2</sub> O (5.3 kPa)

Cooling System	
Fan Load	0.32 hp (0.24 kW)
Coolant Capacity (with radiator)	2.77 gallons (10.5 liters)
Coolant Flow Rate (per minute)	14 gallons (53 liters)
Heat Rejection to Coolant (per minute)	2624 Btu (2.49 MJ)
Ambient Temperature Rating	104°F (40°C)

Air	
Combustion Air	77 cfm (2.18 m <sup>3</sup> /min)
Maximum Air Cleaner Restriction	9.84 in. H <sub>2</sub> O (2.45 kPa)
Alternator Cooling Air	526 cfm (14.9 m <sup>3</sup> /min)
Radiator Cooling Air	2594 cfm (73.4 m <sup>3</sup> /min)
Minimum Air Opening to Room	4.52 ft <sup>2</sup> (0.42 m <sup>2</sup> )
Minimum Discharge Opening	2.19 ft <sup>2</sup> (0.2 m <sup>2</sup> )

Amperage	
Rated Voltage	Maximum Amps
1Ø 120 Volt	80 Amps (4 wire) 108 A x 2 (Zigzag)
1Ø 240 Volt	40 Amps (4 wire) 108 A (Zigzag)
3Ø 240 Volt	86 Amps
3Ø 480 Volt	43 Amps
Main Line Circuit Breaker Rating	110 Amps
Over Current Relay Trip Set Point 480V Mode Only	43 Amps

### WARRANTY\*

#### Kubota Engine

12 months from date of purchase with unlimited hours or 24 months from date of purchase with 2000 hours (whichever comes 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

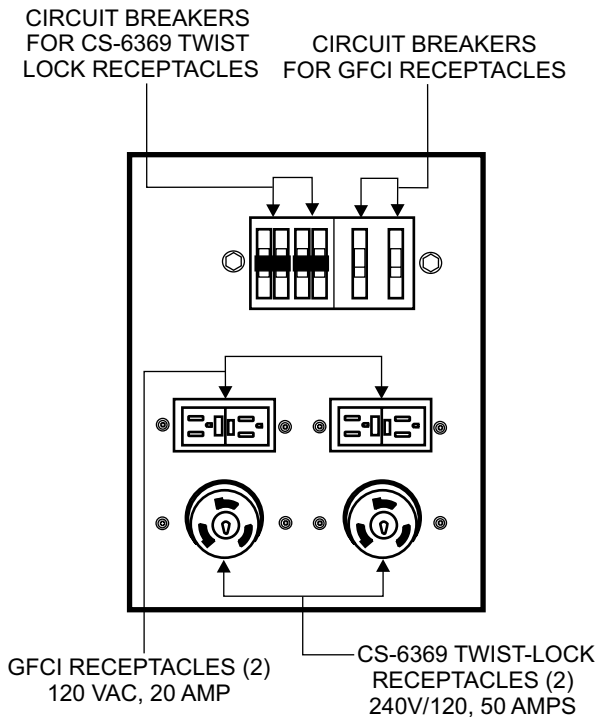
**MQ POWER DECIBEL LEVELS**

Our soundproof housing allows substantially lower operating noise levels than competitive designs. 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
- 60 — WhisperWatt™ at 23 feet
- 60 — Air conditioner at 20 feet
- 50 — Normal conversation

**61.0**  
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.
- **Spring Isolators** — provides seismic vibration dampening for stationary standby applications.
- **Trailer Mounted Package** — meets National Highway Traffic Safety Administration (NHTSA) regulations. Trailer is equipped with electronic or surge brakes with double 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

- **Cam-Lok Connectors** — provides quick disconnect alternative to bolt-on connectors.
- **Pin and Sleeve Connectors** — provides industry standard connectors for all voltage requirements.
- **Output Cable** — available in any custom length and size configuration.

### OPTIONAL FUEL CELL FEATURES

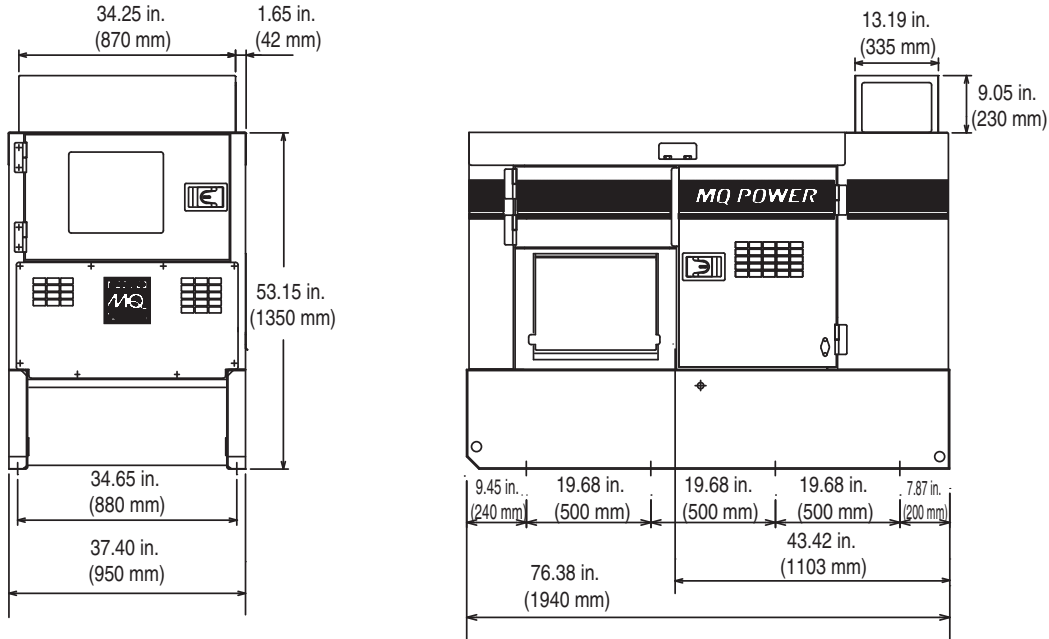
- **Sub-base Fuel Cells (Double Wall)** — Additional fuel cell for extended runtime operation. Contains a leak sensor, low fuel level switch, and a secondary containment tank. UL142 listed.
  - 12 hours of minimum run time.
  - 24 hours of minimum run time.



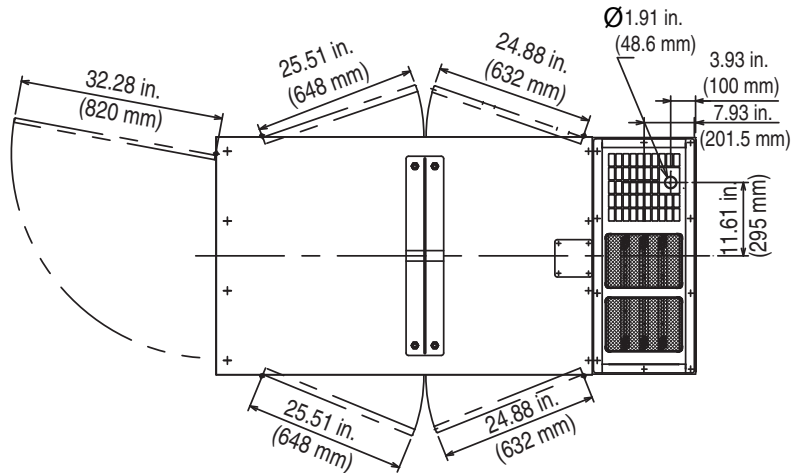
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## MQ POWER Series Generator

### DIMENSIONS



Weight	
Dry Weight	2,250 lbs. (1020 kg)
Wet Weight	2,823 lbs. (1,280 kg)
Max. Lifting Point Capacity	5,150 lbs. (2,315 kg)



Generator can be placed on MQ Power Model TRLR45 Trailer.

Manufactured by Denyo Co.

Your Multiquip dealer is:

Gonneville Inc.  
 211 Calle Pintosco Suite A  
 San Clemente, CA 92672  
 877-246-8015 sales@gonneville.com



# EXHAUST EMISSION DATA SHEET

## MQ POWER GENERATOR SET

Model: DCA40SSKU4F



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

<b>Manufacturer:</b> Kubota	<b>Bore:</b> 3.4 in. ( 87 mm)
<b>Model:</b> V2403	<b>Stroke:</b> 4.0 in. ( 102 mm)
<b>Type:</b> 4-Cycle, In-Line, 4-Cylinder, Diesel	<b>Displacement:</b> 146 cid ( 2.4 liters)
<b>Aspiration:</b> Turbocharger, ECM, EGR,DOC,DPF Electronic Direct Injection,	<b>Compression Ratio:</b> 18.1 : 1

### PERFORMANCE DATA

SAE Gross HP @ 1800 RPM (60 Hz)	48.3
Rated Load Fuel Consumption (gal/Hr)	2.24
Rated Load Exhaust Gas Flow (cfm)	234
Rated Load Exhaust Gas Temperature (°F)	939

**United States EPA - Mobile Off-Highway Tier 4 Limits - 25 ≤ ~ <49 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	0.02	gr/bhp-hr
PM (Particulate Matter)	0.0223	gr/bhp-hr	0.0007	gr/bhp-hr
NMHC (Non-Methane Hydrocarbons)	N/A	gr/bhp-hr	N/A	gr/bhp-hr
NMHC + NOx	3.50	gr/bhp-hr	2.46	gr/bhp-hr

<b>EPA Engine Family:</b>	FKBXL02.4EKC
<b>EPA Certificate of Conformance:</b>	FKBXL02.4EKC-028
<b>ARB Executive Order:</b>	U-R-025-0652-1
<b>Effective Date:</b>	Model Year 2015

**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.



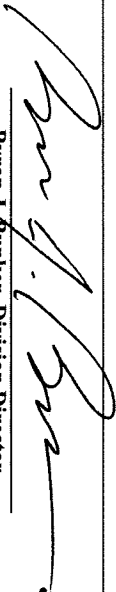
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
2015 MODEL YEAR  
CERTIFICATE OF CONFORMITY  
WITH THE CLEAN AIR ACT

OFFICE OF TRANSPORTATION  
AND AIR QUALITY  
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: **Kubota Corporation**  
(U.S. Manufacturer or Importer)

Certificate Number: **FKBXL02.4EKC-028**

Effective Date:  
01/09/2015  
Expiration Date:  
12/31/2015

  
Byron J. Bunker, Division Director  
Compliance Division

Issue Date:  
01/09/2015  
Revision Date:  
N/A

Model Year: 2015  
Manufacturer Type: Original Engine Manufacturer  
Engine Family: FKBXL02.4EKC

Mobile/Stationary Indicator: Mobile  
Emissions Power Category: 19<=kW<37  
Fuel Type: Diesel  
After Treatment Devices: PTOX-DPF-Active, 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 <b>Air Resources Board</b>	KUBOTA Corporation	<b>EXECUTIVE ORDER U-R-025-0652-1</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-14-012;

**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)
2015	FKBXL02.4EKC	2.435	Diesel	5000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Exhaust Gas Recirculation, Electronic Control Module, Diesel Oxidation Catalyst, Periodic Trap Oxidizer			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	--	--	3.3	0.03	0.001	--	--	--


**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.**

This Executive Order hereby supersedes and cancels Executive Order U-R-025-0652 dated October 29, 2014.

Executed at El Monte, California on this 26<sup>th</sup> day of November 2014.

  
 Annette Hebert, Chief  
 Emissions Compliance, Automotive Regulations and Science Division