



# DCA25SSIU4F

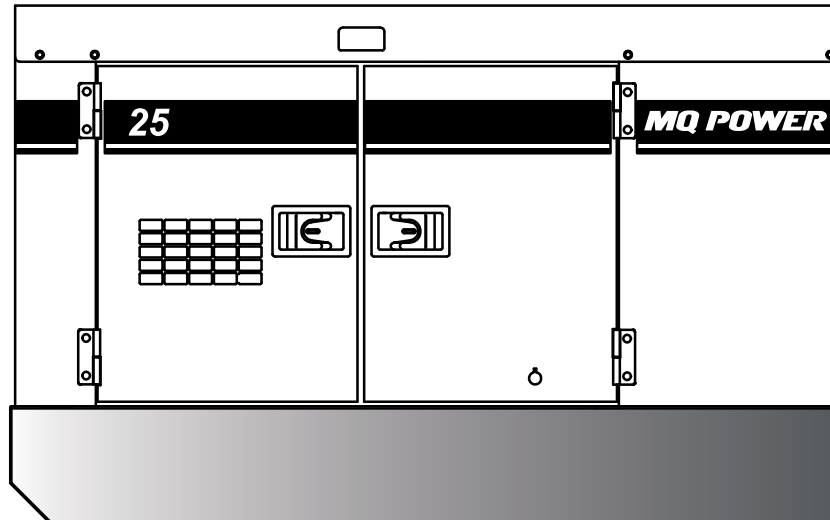
## Generator

### WhisperWatt™

**Prime Rating** — 20 kW (25 kVA)

**Standby Rating** — 22 kW (27.5 kVA)

Three-Phase, 60 Hertz, 0.8 PF



### STANDARD FEATURES

- Heavy duty, 4-cycle, direct injection, heated crankcase vent, turbocharged diesel engine provides maximum reliability.
- EPA emissions certified - Tier 4 final emissions compliant.
- Microprocessor engine control system maintains frequency to  $\pm 0.25\%$ .
- Full load acceptance of standby nameplate rating in a single step.
- Fuel/water separator removes condensation from fuel for extended engine life. Panel mounted alarm light included.
- Sound attenuated, weather resistant, steel housing provides operation at 65 dB(A) at 23 feet. Fully lockable enclosure allows safe unattended operation.
- E-coat and powder coat paint provides durability and weather protection.
- Internal fuel tank with direct reading of fuel gauge.
- Spill containment — Bunded design protects environment by capturing up to 124% of engine fluids.
- Brushless alternator reduces service and maintenance requirements and meets temperature rise standards for Class F insulation systems.
  - Open delta excitation design provides virtually unlimited excitation for maximum motor starting capability.
  - Automatic voltage regulator (AVR) provides precise regulation.
- Fully covered power panel. Three-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.
- ECU754 microprocessor-based digital generator controller.
  - Remote 2-wire start/stop control.
  - Operational temperature range of  $-40^{\circ}$  to  $85^{\circ}$  C.
- Digital engine gauges including oil pressure, water temperature, battery volts, engine speed and fuel level.
- Analog generator instrumentation including AC ammeter, AC voltmeter, frequency meter, ammeter phase selector switch, voltmeter phase selector switch, and voltage regulator adjustment potentiometer.
- Automatic safety shutdown system monitors the water temperature, engine oil pressure, overspeed and overcrank. Warning lights indicate abnormal conditions.
- Voltage selector switch allows easy to change voltages as your applications require.



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## Generator

### SPECIFICATIONS

| Generator Specifications                                        |                                                                       |         |
|-----------------------------------------------------------------|-----------------------------------------------------------------------|---------|
| Design                                                          | Revolving field, self-ventilated<br>Drip-proof, single bearing        |         |
| Armature Connection                                             | Star with Neutral                                                     | Zig Zag |
| Phase                                                           | 3                                                                     | Single  |
| Standby Output                                                  | 22 KW (27.5 KVA)                                                      | 15.8 KW |
| Prime Output                                                    | 20 KW (25 KVA)                                                        | 14.4 KW |
| 3Ø Voltage (L-L/L-N)<br>Voltage Selector Switch at 3Ø 240/139   | 208Y/120, 220Y/127,<br>240Y/139                                       | N/A     |
| 3Ø Voltage (L-L/L-N)<br>Voltage Selector Switch at 3Ø 480/277   | 416Y/240, 440Y/254,<br>480Y/277                                       | N/A     |
| 1Ø Voltage (L-L/L-N)<br>(Voltage Selector Switch at 1Ø 240/120) | N/A                                                                   | 240/120 |
| Power Factor                                                    | 0.8                                                                   | 1.0     |
| Voltage Regulation (No load to full load)                       | ±0.5%                                                                 |         |
| Generator RPM                                                   | 1800                                                                  |         |
| Frequency                                                       | 60 Hz                                                                 |         |
| Winding Pitch                                                   | 5/6                                                                   |         |
| No. of Poles                                                    | 4                                                                     |         |
| Excitation                                                      | Brushless with AVR                                                    |         |
| Frequency Regulation:<br>No Load to Full Load                   | Isochronous under varying loads from<br>no load to 100% rated load    |         |
| Frequency Regulation: Steady State                              | ±0.25% of mean value for constant loads<br>from no load to full load. |         |
| Insulation                                                      | Class F                                                               |         |
| 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,<br>direct injection, turbocharged, EGR |
| Displacement              | 133.0 in <sup>3</sup> (2179 cc)                               |
| No. cylinders             | 4                                                             |
| Bore x Stroke (mm)        | 85 x 96                                                       |
| Rated Engine Power Output | 33.5 hp (25 kW)                                               |
| BMEP                      | 133 psi (918 kPa)                                             |
| Piston Speed              | 1133.9 ft./min. (5.76 m/s)                                    |
| Compression Ratio         | 17.6:1                                                        |
| Engine Speed              | 1800 rpm                                                      |
| Overspeed Limit           | 2070 rpm                                                      |
| Oil Capacity              | 2.8 gallons (10.5 liters)                                     |
| 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 |
| * - Use ultra-low sulfur diesel fuel. |                           |      |

| 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 (1.04 meters)    |
| Ambient Temperature Rating             | 104°F (40°C)               |

| Air                             |                                             |
|---------------------------------|---------------------------------------------|
| Combustion Air                  | 109 cfm (3.10 m <sup>3</sup> /min)          |
| Maximum Air Cleaner Restriction | 25 in. H <sub>2</sub> O (6.23 kPa)          |
| Alternator Cooling Air          | 388 cfm (11.0 m <sup>3</sup> /min)          |
| Radiator Cooling Air            | 1420 cfm (40.2 m <sup>3</sup> /min)         |
| Minimum Air Opening to Room     | 2.6 ft <sup>2</sup> (0.24 m <sup>2</sup> )  |
| Minimum Discharge Opening       | 0.84 ft <sup>2</sup> (0.08 m <sup>2</sup> ) |

| Exhaust System        |                                     |
|-----------------------|-------------------------------------|
| Gas Flow (full load)  | 148 cfm (4.2 m <sup>3</sup> /min)   |
| Gas Temperature       | 847°F (453°C)                       |
| Maximum Back Pressure | 30.1 in. H <sub>2</sub> O (7.5 kPa) |

| Amperage                          |                      |
|-----------------------------------|----------------------|
| Rated Voltage                     | Maximum Amps         |
| 1Ø 120 Volt                       | 60 Amps x 2 (Zigzag) |
| 1Ø 240 Volt                       | 60 Amps (Zigzag)     |
| 3Ø 208 Volt                       | 60 Amps              |
| 3Ø 240 Volt                       | 60 Amps              |
| 3Ø 480 Volt                       | 30 Amps              |
| Main Line Circuit Breaker Rating  | 60 Amps              |
| Over Current Relay Trip Set Point | 30 Amps              |

### WARRANTY\*

#### Isuzu Engine\*\*

12 months from date of purchase with unlimited hours or 36 months from date of purchase with 3,000 hours (whichever occurs first).

#### Generator

24 months from date of purchase or 2,000 hours (whichever occurs first).

#### Trailer

12 months excluding normal wear items.

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

\*\*Refer to Isuzu Diesel Engine Limited Warranty for details.

### NOTICE

Specifications sheet is subject to change and is not intended for use in installation design.



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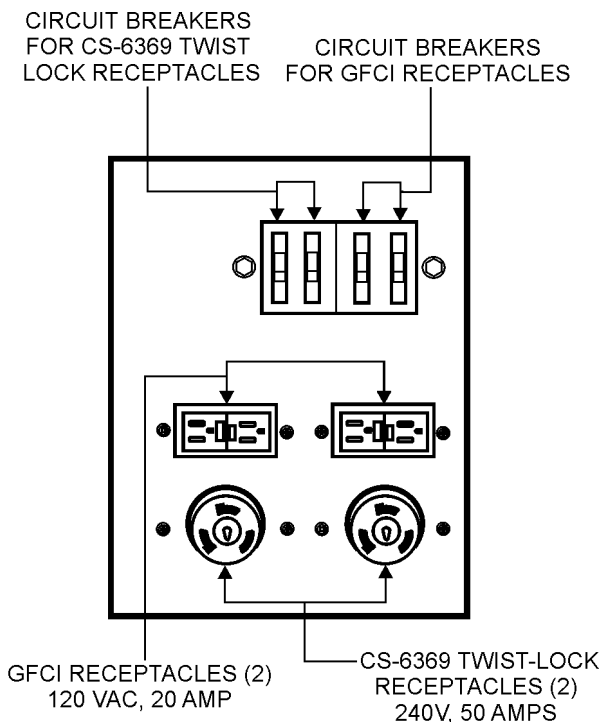
### MQ POWER DECIBEL LEVELS

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
- 65 — 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.
- **Low Coolant Level Shutdown** — provides protection from critically low coolant levels. Includes control panel warning light.
- **Trailer Mounted Package** — meets National Highway Traffic Safety Administration (NHTSA) regulations. Trailer is equipped with electronic or surge brakes with single or 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 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.

### OPTIONAL OUTPUT CONNECTIONS

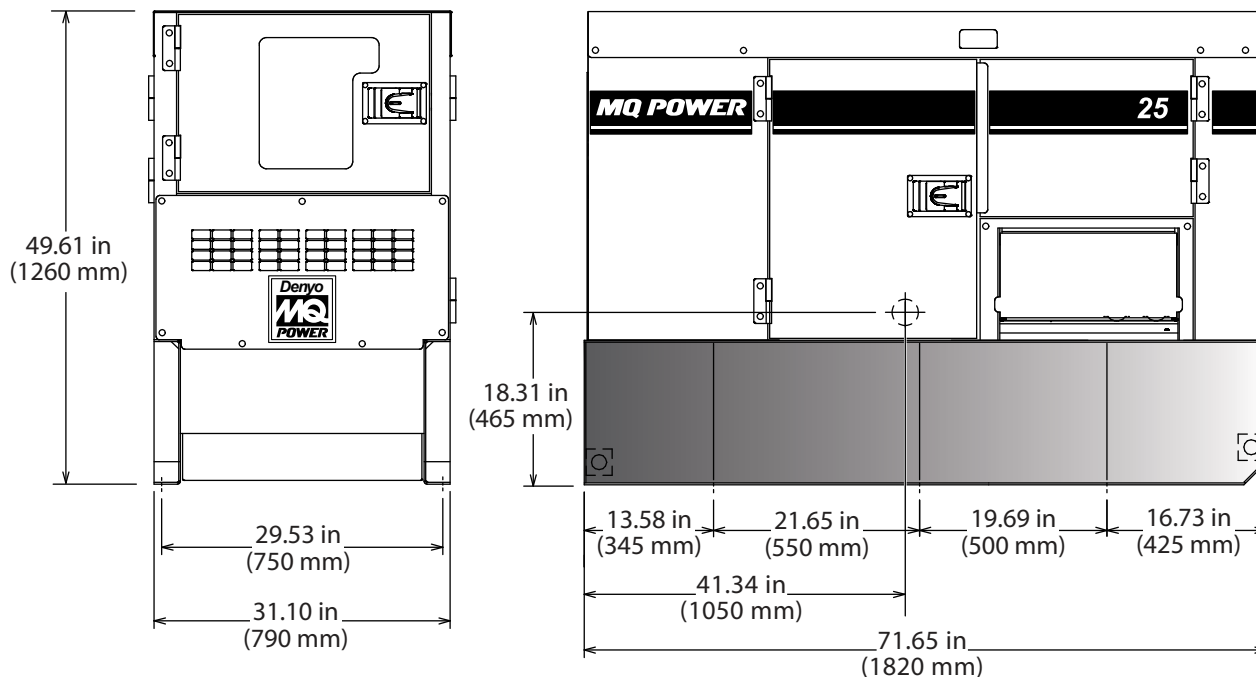
- **Cam-Lok Connectors** — provides quick disconnect alternative to bolt-on connectors.
- **Pin and Sleeve Connectors** — provides industry standard connectors for all voltage requirements.
- **Output Cable** — available in any custom length and size configuration.



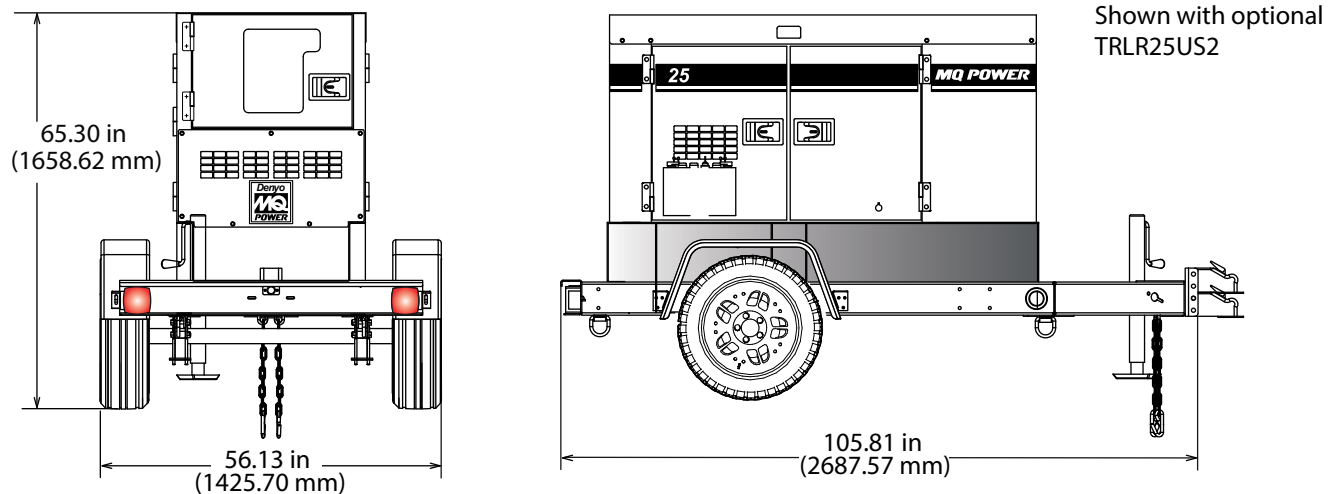
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### SKID-MOUNT DIMENSIONS



### TRAILER-MOUNT DIMENSIONS



#### DCA25SSIU4F Weights\*

|                             |                       |
|-----------------------------|-----------------------|
| Dry Weight                  | 1,795 lbs. (814 kg)   |
| Wet Weight                  | 2,137 lbs. (969 kg)   |
| Max. Lifting Point Capacity | 5,150 lbs. (2,335 kg) |

\* Weights do not include options.

#### DCA25SSIU4F and TRLR25US2 Weights\*

|                             |                       |
|-----------------------------|-----------------------|
| Dry Weight (with TRLR25US2) | 2,239 lbs. (1,016 kg) |
| Wet Weight (with TRLR25US2) | 2,581 lbs. (1,171 kg) |

Generator can be placed on MQ Trailer Models TRLR25US and TRLR75XF2.

#### NOTICE

Features and Specifications are subject to change without notice.



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