



# DCA25USI

## MQ POWER Series Generator

### SPECIFICATIONS

#### Generator Specifications

Design	Revolving field, self-ventilated Drip-proof, single bearing	
Armature Connection	Star with Neutral	Zig Zag
Phase	3	Single
Standby Output	22 KW (27.5 KVA)	15.3 KW
Prime Output	20 KW (25 KVA)	14.4 KW
3Ø Voltage (L-L/L-N) Voltage Selector Switch at 3Ø 240/139	208Y/120, 220Y/127, 240Y/139	N/A
3Ø Voltage (L-L/L-N) Voltage Selector Switch at 3Ø 480/277	416Y/240, 440Y/254, 480Y/277	N/A
1Ø Voltage (L-L/L-N) (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	
No. of Poles	4	
Excitation	Brushless with AVR	
Frequency	60 Hz	
Frequency Regulation: No Load to Full Load	3~5% under varying loads from no load to 100% rated load	
Frequency Regulation: Steady State	±0.5% of mean value for constant loads from no load to full load.	
Insulation	Class F	
Sound Level dB(A) Full load at 23 feet	59	

#### Engine Specifications

Make / Model	Isuzu / BV-4LE2	
Emissions	EPA Interim Tier 4 Certified	
Starting System	Electric	
Design	4-cycle, water cooled, direct injection	
Displacement	133.0 in <sup>3</sup> (2179 cc)	
No. cylinders	4	
Bore x Stroke (mm)	85 x 96	
Gross Engine Power Output	35.9 bhp (26.8 kWm)	
BMEP	100 psi (691 kPa)	
Piston Speed	1134 ft./min. (5.76 m/s)	
Compression Ratio	18:1	
Engine Speed	1800 rpm	
Overspeed Limit	2100 rpm	
Oil Capacity	2.25 gallons (8.5 liters)	
Battery	12V 53Ah x 1	

#### Fuel System

Recommended Fuel	ASTM-D975-No.1 & No.2-D	
Maximum Fuel Flow (per hour)	3.7 gallons (14.0 liters)	
Maximum Inlet Restriction (Hg)	8.66 in. (220 mm)	
Fuel Tank Capacity	41.7 gallons (158 liters)	
<b>Fuel Consumption</b>	<b>gph</b>	<b>lph</b>
At full load	1.66	6.3
At 3/4 load	1.21	4.6
At 1/2 load	0.85	3.2
At 1/4 load	0.58	2.2

#### Cooling System

Fan Load	0.13 hp (0.1 kW)
Coolant Capacity (with radiator)	1.70 gallons (6.4 liters)
Coolant Flow Rate (per minute)	15.6 gallons (59 liters)
Heat Rejection to Coolant (per minute)	862 Btu (0.91 MJ)
Heat Rejection to Room (per minute)	209 Btu (0.22 MJ)
Maximum Coolant Friction Head	3.1 psi (21.6 kPa)
Maximum Coolant Static Head	21 feet (6.4 meters)
Ambient Temperature Rating	104°F (40°C)

#### Air

Combustion Air	56 cfm (1.6 m <sup>3</sup> /min)
Maximum Air Cleaner Restriction	24.9 in. H <sub>2</sub> O (6.2 kPa)
Alternator Cooling Air	388 cfm (11 m <sup>3</sup> /min)
Radiator Cooling Air	1059 cfm (30 m <sup>3</sup> /min)

#### Exhaust System

Gas Flow (full load)	152 cfm (4.08 m <sup>3</sup> /min)
Gas Temperature	1004°F (570°C)
Maximum Back Pressure	28.0 in. H <sub>2</sub> O (7.0 kPa)

#### Amperage

Rated Voltage	Maximum Amps
1Ø 120 Volt	55.6 Amps (4 wire) 60A x 2 (Zigzag)
1Ø 240 Volt	27.8 Amps (4 wire) 60A (Zigzag)
3Ø 240 Volt	60 Amps
3Ø 480 Volt	30 Amps
Main Line Circuit Breaker Rating	60 Amps
Over Current Relay Trip Set Point 480V Mode Only	30 Amps

### WARRANTY\*

#### Isuzu 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.