

CUMMINS GENERATOR

Capacity: 748KW – 1000KW at 50Hz
837KW-1020KW at 60HZ
Engine Model: KTA 38 Series Engine.

Model	Standby Rating		Prime Rating	
	50Hz kVA (KW)	60 Hz kVA (KW)	50Hz kVA (KW)	60 Hz kVA (KW)
C825 D5e	825 (660)	N/A	750(600)	N/A
C900 D5	900 (720)	N/A	820 (656)	N/A
C1000 D5e	1000 (800)	N/A	910 (728)	N/A
832 DFJC	1040 (832)	N/A	936 (748)	N/A
906 DFJD	1132 (906)	N/A	1029 (823)	N/A
921 DFJC	N/A	1151 (921)	N/A	1046 (837)
1020 DFJD	N/A	1276 (1020)	N/A	1160 (928)

Specification

Generator set specification

Governor Regulation Class	ISO8528G2
Voltage Regulation, No Load to Full Load	± 1%
Random Voltage Variation	± 1%
Frequency Regulation	Isochronous
Random Frequency Variation	±0.25%
Radio Frequency Emissions Compliance	IEC 801.2 through IEC 801.5; MIL STD 461C, Part 9

Engine Specifications

Design	4 cycle, in line, turbo Charged and after-cooled
Bore	159mm (6.25in.)
Stroke	159mm (6.25in.)
Displacement	38 liters (2300in. ³)
Cylinder Block Engine	Twelve-cylinder vee formation, direct injection, four-cycle diesel engine
Battery Capacity	890 amps minimum at ambient temperature 32°F (0°C)
Battery Charging Alternator	55 amps
Starting Voltage	24-volt, negative ground
Fuel System	Direct injection
Fuel Filter	Dual spin on paper element fuel filters with standard water separator.
Air Cleaner Type	Dry replaceable element
Lube Oil Filter Type(s)	Spin-on paper element full flow and bypass lube oil filters.
Standard Cooling System	122°F (50°C) ambient radiator

Alternator Specifications

Design	Brushless, 4 pole, drip proof revolving field
Stator	2/3 pitch
Rotor	Direct coupled by flexible disc
Insulation System	Class H
Standard Temperature Rise	150°C Standby
Exciter Type	PMG (Permanent Magnet Generator)
Phase Rotation	A (U), B (V), C (W)
Alternator Cooling	Direct drive centrifugal blower fan
AC Waveform Total Harmonic Distortion	No load < 1.5%. Non distorting balanced linear load < 5%
Telephone Influence Factor (TIF)	<50 per NEMA MG1-22.43
Telephone Harmonic Factor (THF)	<3%

*Note: Some options may not be available on all models.



Standby Power

Standby power is defined as the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 500 hours of operation per year under average of 70% load. Overloading is not permissible.

Prime Power

Prime power is defined as being the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hours.



2000 kVA Diesel Generator



5 MVA Transformer



VCB



ACB



Synchronized Electricity



Civil Construction



Over Head Crane