

## CUMMINS GENERATOR

**Capacity: 450KVA – 550KVA at 50Hz  
410KW-500KW at 60HZ**

**Engine Model: QSX15 series engine**

Model	Standby Rating		Prime Rating	
	50Hz kVA (KW)	60 Hz kVA (KW)	50Hz kVA (KW)	60 Hz kVA (KW)
<b>C500 D5</b>	500 (400)	N/A	450 (360)	N/A
<b>C550 D5</b>	550 (440)	N/A	500 (400)	N/A
<b>C450 D6</b>	N/A	450 (563)	N/A	410 (513)
<b>C500 D6</b>	N/A	500 (625)	N/A	450 (563)

### Specification

Generator set specification	
Governor Regulation Class	ISO8528 G2
Voltage Regulation, No Load to Full Load	± 1%
Random Voltage Variation	± 1%
Frequency Regulation	Isochronous
Random Frequency Variation	±0.25%
EMC Compatibility	BS EN 61000-6-4 / BS EN 61000-6-2
Engine Specifications	
Design	4 cycle, in-line, Turbo Charged, Air-cooled
Bore	137 mm (5.39 in.)
Stroke	169 mm (6.65 in.)
Displacement	15 liter (912 in.3 )
Cylinder Block Engine	Cast iron, 6 cylinder
Battery Capacity	100 A/hr
Battery Charging Alternator	35 amps
Starting Voltage	24 volt, negative ground
Fuel System	Direct injection
Fuel Filter	Spin on fuel filters with water separator
Air Cleaner Type	Dry replaceable element with restriction indicator
Lube Oil Filter Type(s)	Spin on full flow filter
Standard Cooling System	122°F (50°C) ambient radiator
Alternator Specifications	
Design	Brushless single bearing, revolving field
Stator	2/3 pitch
Rotor	Single bearing, flexible disc
Insulation System	Class H
Standard Temperature Rise	125 - 163°C Standby
Exciter Type	Self Excited
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)	<2%

\*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