

Diesel Generator Set K38 Series

750-810 kVA, 600-648 kWe Prime



Reliable Technology And Unmatched Performance

- The Cummins® K38 series heavy-duty engine and world class Stamford alternator powered diesel
- Proven technology with mechanical simplicity of Cummins PT fuel system.
- Advanced in-cylinder technology and 2P2L Cooling system to meet latest emission norms without any after-treatment device
- Smart aesthetic and superior finish
- Compact in size with optimum power to weight

Environment Friendly Power

- Class defining technology engine is designed to meet stringent exhaust emission tests as per revised MoEF norms, thus offering environment friendly power.
- The Cummins® diesel generator sets are available with the lowest noise levels in its range

Lowest Operating Cost And Comprehensive Warranty

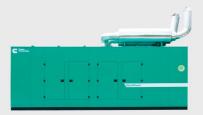
- Highly reliable and durable product
- All elements are designed to work together to maximize efficiency even at part loads, offering the advantage of lowest operating costs.
- 300 Hours/ 1 year service interval
- Industry acknowledged best-in-class comprehensive warranty on the entire package including rubber components

Single Source Power Assurance

- All the major components the engine, alternator, control system and canopy are designed, manufactured and tested by Cummins India.
- Best and Largest customer support network in India, capable of providing round-the-clock service and spares support
- All these things put together, Cummins® offers you SINGLE SOURCE POWER ASSURANCE

Engine

- Cummins K38 series, 12 cylinder, Vee, 4 stroke, radiator cooled engine
- Highly stable and reliable design with square engine
- Well designed air handling system with
 - Dry type, Heavy duty, Replaceable paper element air cleaner with restriction indicator
 - Outboard aftercooling with 2 pump 2 loop system
 - Optimised turbocharger for increased altitude capabilities
- Best in class fuel economy with
 - PT fuel system with Electronic Step Timing Control (ESTC) injectors which smoothly stabilise engine speed under load with A1 class electronic governing
 - Dual fuel filter system: Pre filter including water separator and Water In Fuel (WIF) sensor and main filter
- Standard integral set-mounted radiator system, designed and tested for 50°C ambient temperature
- Full flow paper element type lube oil filters
- Plate type lube oil cooler
- First fill of lube oil and coolant
- Electrical starter motor with soft start engagement feature
- Battery charging alternator
- 2 x 12 V DC batteries



Alternator

- Stamford HC alternator frames from Cummins Generator Technologies
- Brushless type, Screen protected, Separately excited alternator conforming to IS/IEC 60034-1
- PMG standard
- Better motor starting capability
- Best in class efficiency
- Compact design with sealed bearings for longer life and lesser maintenance
- Impregnation on all wound components for better mechanical strength

Control Panel

Control panel is manufactured with 14/16 gauge CRCA sheet and is powder coated for weather-proof and long lasting finish. The control panel consists of the following parts:

- PowerCommand 3.3 controller
- Aluminum bus bars with suitable capacity with incoming/ outgoing terminals
- Indicating lamps for 'Load ON' and 'Set Running'
- Instrument fuses duly wired and ferruled
- Air Circuit Breakers (ACBs) of suitable rating with overload and short circuit protections

PowerCommand 3.3 Features

The PowerCommand® control system is an integrated microprocessor-based generator set monitoring, metering and control system with LCD display designed to meet the demands of today's engine driven generator sets.



- Intuitive operator interface which includes LED backlit LCD display with tactile feel soft-switches & generator set status LED lamps
- Integrated digital electronic voltage regulator with configurable torque matching.
- Digital Electronic Governing with temperature compensation and Smart Starting.
- SAE J1939 Interface to Full Authority Electronic (FAE) engines.
- Remote Start-Stop
- Engine Metering: Oil pressure, High/Low coolant temperature, Low coolant level, Oil temperature, Intake manifold temperature, Battery voltage, Engine speed
- AC Alternator Metering: L-L Voltage and L-N Voltage, Current (1 and 3 phase), kW, kVAR, Power factor, kVA (three phase and total), and Frequency.
- Utility/AC bus Metering: L-L Voltage and L-N Voltage, Current (1 and 3 phase), kW, kVAR, Power factor, kVA (three phase and total), and Frequency.
- Paralleling Control Functions: Digital frequency synchronization and voltage matching, Isochronous kW and kVAr load sharing controls, Droop kW and kVAr control, Sync check, Extended paralleling (Peak Shave/Base Load), Digital power transfer control (AMF), Load govern control, Load demand control
- Data Logging: Genset model data, Engine hours, Control hours, Engine starts, Load profile, kWh and upto 32 recent fault codes
- Engine Protection: Low lube oil pressure, High/Low coolant temperature, Over speed, Battery Over/Under/Weak Volts, Fail to crank/start, Cranking lockout, Low fuel level, Sensor failure.
- AC Alternator Protection: AmpSentry protective relays for short circuit shutdown, Over/Under voltage, Over/Under frequency, Over current, Overload, Reverse power, Reverse VAr, Phase rotation and Loss of AC sensing.
- Utility/AC bus protection: Over/Under voltage, Under frequency and Phase rotation
- Paralleling protections
- Control Functions: Start-stop with configurable time delay, Real time clock for fault and event time stamping, Exerciser clock and time of day start/ stop, Configurable glow plug control, Configurable cycle cranking, Load shed/ dump as per configurable priority
- 12 and 24 Volt DC Operation
- Sleep Mode
- Programmable I/Os (4 inputs and 4 outputs), expandable with AUX101/102 modules
- Self-Configuring PCCNet network
- Modbus Interface (RS485 RTU)
- InPower Compatible (PC based service tool)
- Certifications meets the requirement of relevant UL, NFPA, ISO, IEC, Mil Std., CE and CSA standards

Silencer

 Hospital grade Silencer suitably optimised to meet stringent noise emission standards laid down by MoEF / CPCB

Mounting Arrangement

 Engine and alternator are mounted on a common MS fabricated base frame with AVM pads.

Optional

- Engine: Coolant heater, Oil drain pump, Heat exchanger, No cool, Remote radiator
- Control Panel: Microprocessor / relay based AMF control panel, Battery charger, Auxiliary output relays and remote annunciators
- Others: Trolley mounted mobile sets

Acoustic Enclosure

- Specially designed to meet stringent MoEF/ CPCB norms of 75 dBA @ 1mtr at 75% load under free field conditions
- The acoustic enclosure is made of CRCA sheets in munsel green shade and a structural/ sheet metal base frame painted in black.
- High quality noise absorbant and fire-retardant grade acoustic insulation material (Rockwool) complying to IS
- Cap-on type enclosure with base lifting for easy handling at customer site
- Designed to have optimum serviceability
- Air inlet louvers specially designed to operate at rated load
- Made on special purpose CNC machines for consistency in quality and workmanship
- 11 tank pretreatment process and UV resistant powder coating of all parts to withstand extreme environment
- Use of special hardware for longer life
- Flush styling no projections
- Fluid drains for lube oil and fuel
- Provision of fuel line connection from day tank

Technical Data

Generator	set	specification

Model	deriorator det opcomoditori									
Power Rating (NA / XWe)	Model	C750D5P								
No. of Phases	,									
Output Voltage and Frequency (V and Hz)	· ·		810/648							
Power Factor	No. of Phases		-							
Current (A)	Output Voltage and Frequency (V and Hz)	415 V, 50 Hz	415 V, 50 Hz							
Pryside Properties Proper	Power Factor	0.8 (lagging)	0.8 (lagging)							
Engine Specification Marke	Current (A)	1043	1126							
Make Cummins Cummins MoEF Certified Power (hp) 987 1089 Required Power for Rated kVA (hp) 391 980 Cooling Liquid cooled (Distilled Water +DCA2) Liquid cooled (Distilled Water +DCA2) Aspiration Turbocharged Aftercooled Ife.7:1 No. of price for Set fock (mm) 159 x 159 159 x 159 Fuel consumption 975% load with radiator and fan' (litre/h) 132.4 138.94 Fuel consumption 975% load with radiator and fan' (litre/h) 166.42 177.41 Fuel consumption 98 (100% load with radiator and fan' (litre/h) 166.42 177.41 Fuel consumption 98 (100% load with radiator) 166.42 177.41 Fuel consumption 98 (100% load with radiator) 166.42 177.41 Glas poetfication 140 C Betwins a 150 Betwi	RPM	1500	1500							
Model KTA38-G13 KTA38-G12 MoEF Certified Power for Rated kVA (rp) 391 1069 Required Power for Rated kVA (rp) 391 980 Cooling Liquid cooled (Distilled Water +DCA2) Usquid cooled (Distilled Water +DCA2) Aspiration Turbocharged Aftercooled Aftercooled No. of cylinders 12, Vee 12, Vee Bore (mm) 559 x 159 159 x 159 Compression ratio 16,7:1 16,7:1 Displacement (ltre) 38 38 Fuel High Speed Diesel High Speed Diesel Fuel consumption @175% load with radiator and far" (ltre/hr) 132.4 139.94 Fuel consumption @100% load with radiator and far" (ltre/hr) 166.42 177.41 Fuel consumption @100% load with radiator and far" (ltre/hr) 166.42 177.41 Fuel consumption @100% load with radiator and far" (ltre/hr) 166.42 177.41 Fuel consumption @100% load with radiator (ltre/hr) 160.42 177.41 Fuel consumption @100% load with radiator (ltre/hr) 160.42 177.41 Fuel consumption @100% load (ltre/hr) 155 </td <td colspan="10"></td>										
MOEF Cartified Power (np)	Make	Cummins	Cummins							
Required Power for Rated kVA (hp) 891 960 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Model	KTA38-G13	KTA38-G12							
Required Power for Rated kVA (hp) 891 960 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	MoEF Certified Power (hp)	987	1069							
Cooling	Required Power for Rated kVA (hp)	891								
Aftercooled Aftercooled Aftercooled Section 12, Vee 12, Vee 12, Vee 159 x 159 159 x 159 x 159 159 x 159 x 159 159 x										
No. of cylinders	Aspiration									
Bore (mm) x Stroke (mm)	No. of cylinders									
Compression ratio 16.7:1 38 38 38 38										
Displacement (litre) 38	Control of									
Fuel High Speed Diesel High Speed Diesel Fuel consumption @75% load with radiator and fan' (litre/hr) 132.4 138.94 Fuel consumption @100% load with radiator and fan' (litre/hr) 166.42 177.41 Performance class of generator set ISO 8528-5 G2 ISO 8528-5 G2 Starting system 24 V DC Electrical 24 V DC Electrical Lube oil specification CH4 15W40 CH4 15W40 Lube oil sump capacity, High-Low level (litre) 140 - 114 140 - 114 (litre) 155 155 155 Lube oil consumption @ full load** (litre/hr) 0.24 0.26 330 Total lubrication system capacity (litre) 155 155 155 Lube oil consumption @ full load** (litre/hr) 0.24 0.26 330 330 No. of banks x Exhaust pipe size (inch) 2 x 8 2 x 8 2 x 8 2 x 8 Total wet weight (Engine) Radiator)** (kg) 5800 5800 5800 5800 Length x Width x Height (Engine) (mm) 2299 x 1436 x 1764 2269 x 1436 x 1764 2269 x 1436 x 1764 Mean piston speed (m/s)										
Fuel consumption @75% load with radiator and fan' (litre/hr) 166.42 177.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.41 17.	7 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -									
Automatic Consumption Co										
radiator and fan* (litre/hr) Performance class of generator set ISO 8528-5 G2 ISO 8528-5 G2 ISO 8528-5 G2 Starting system 24 V DC Electrical 24 V DC Electrical Lube oil sump capacity, High-Low level (litre) Total lubrication system capacity (litre) Total lubrication system capacity (litre) Total oil consumption @ full load* (litre/hr) Total ocolant capacity (litre) 330 No. of banks x Exhaust pipe size (inch) Sa0 No. of banks x Exhaust pipe size (inch) Sa0 Sa0 No. of banks x Exhaust pipe size (inch) Sa0 Sa0 No. of banks x Exhaust pipe size (inch) Sa0 Sa0 No. of banks x Exhaust pipe size (inch) Sa0 Sa0 No. of banks x Exhaust pipe size (inch) Sa0 Sa0 No. of banks x Exhaust pipe size (inch) Sa0 Sa0 Sa0 No. of banks x Exhaust pipe size (inch) Sa0 Sa0 Sa0 No. of banks x Exhaust pipe size (inch) Sa0 Sa0 Sa0 No. of banks x Exhaust pipe size (inch) Sa0 Sa0 Sa0 No. of banks x Exhaust pipe size (inch) Sa0 Sa0 Sa0 No. of banks x Exhaust pipe size (inch) Sa0 Sa0 Sa0 No. of banks x Exhaust pipe size (inch) Sa0 Sa0 Sa0 No. of banks x Exhaust pipe size (inch) Sa0 Sa0 Sa0 No. of banks x Exhaust pipe size (inch) Sa0 Sa0 Sa0 No. of banks x Exhaust pipe size (inch) Sa0 Sa0 Sa0 No. of banks x Exhaust pipe size (inch) Sa0 Sa0 Sa0 Sa0 No. of banks x Exhaust pipe size (inch) Sa0	and fan* (litre/hr)									
Starting system	radiator and fan* (litre/hr)	0.0000.000								
Lube oil specification										
Lube oil sump capacity, High-Low level (litre)										
(litre) Total lubrication system capacity (litre) 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155 155										
Lube oil consumption @ full load** (litre/hr) 0.24 0.26 Total coolant capacity (litre) 330 330 330 No. of banks x Exhaust pipe size (inch) 2 x 8 2 x 8 Total wet weight (Engine+Radiator)** (kg) 5800 5800 Length x Width x Height (Engine) (mm) 2269 x 1436 x 1764 2269 x 1436 x 1764 Mean piston speed (m/s) 7.95 7.95 Combustion air intake @ 100% load (±5%) (cfm) 2011 2103 (cfm) Exhaust Temperature (°C) 520 521 Alternator Specification Make		140 - 114	140 - 114							
Total coolant capacity (litre) 330 330 330 No. of banks x Exhaust pipe size (inch) 2 x 8 2 x 8 Total wet weight (Engine+Radiator)** (kg) 5800 5800 Length x Width x Height (Engine) (mm) 2269 x 1436 x 1764 2269 x 1436 x 1764 Mean piston speed (m/s) 7.95 7.95 Combustion air intake @100% load (±5%) (cfm) 2103 (cfm) Exhaust Temperature (°C) 520 521 Alternator Specification HCl634W HCl634V Enclosure IP 23 IP 23 Voltage regulation (Max.) ±1% ±1% Class of Insulation H Class H Class Winding Pitch 2/3 2/3 Stator Winding Double layer lap Double layer lap Rotor Dynamically Balanced Waveform distortion/ Total Harmonic Distortion Value of the control of the con	Total lubrication system capacity (litre)	155	155							
No. of banks x Exhaust pipe size (inch) 2 x 8 2 x 8 Total wet weight (Engine+Radiator)** (kg) 5800 5800 Length x Width x Height (Engine) (mm) 2269 x 1436 x 1764 2269 x 1436 x 1764 Mean piston speed (m/s) 7.95 7.95 Combustion air intake @100% load (±5%) 2011 2103 (cfm) 2103 2103 Exhaust Temperature (°C) 520 521 Alternator Specification 520 521 Make Stamford (CGT) Stamford (CGT) Alternator frame HCl634W HCl634V Enclosure IP 23 IP 23 Voltage regulation (Max.) ±1% ±1% Class of Insulation H Class H Class Winding Pitch 2/3 2/3 Stator Winding Double layer lap Double layer lap Rotor Dynamically Balanced Dynamically Balanced Waveform distortion/ Total Harmonic No load < 1.5 %, Non	Lube oil consumption @ full load** (litre/hr)	0.24	0.26							
Total wet weight (Engine+Radiator)** (kg) 5800 5800 Length x Width x Height (Engine) (mm) 2269 x 1436 x 1764 2269 x 1436 x 1764 Mean piston speed (m/s) 7.95 7.95 Combustion air intake @100% load (±5%) (cfm) 2011 2103 (cfm) 520 521 Alternator Specification Stamford (CGT) Stamford (CGT) Alternator frame HCl634W HCl634V Enclosure IP 23 IP 23 Voltage regulation (Max.) ±1% ±1% Class of Insulation H Class H Class Winding Pitch 2/3 2/3 Stator Winding Double layer lap Double layer lap Rotor Dynamically Balanced Dynamically Balanced Waveform distortion/ Total Harmonic No load < 1.5 %, Non	Total coolant capacity (litre)	330	330							
Length x Width x Height (Engine) (mm) 2269 x 1436 x 1764 2269 x 1436 x 1764 Mean piston speed (m/s) 7.95 7.95 Combustion air intake @100% load (±5%) (cfm) 2011 2103 Exhaust Temperature (°C) 520 521 Alternator Specification Stamford (CGT) Stamford (CGT) Alternator frame HCI634W HCI634V Enclosure IP 23 IP 23 Voltage regulation (Max.) ±1% ±1% Class of Insulation H Class H Class Winding Pitch 2/3 2/3 Stator Winding Double layer lap Double layer lap Rotor Dynamically Balanced Dynamically Balanced Waveform distortion/ Total Harmonic No load < 1.5 %, Non	No. of banks x Exhaust pipe size (inch)	2 x 8	2 x 8							
Mean piston speed (m/s) 7.95 7.95 Combustion air intake @100% load (±5%) (cfm) 2011 2103 Exhaust Temperature (°C) 520 521 Alternator Specification Stamford (CGT) Stamford (CGT) Make HCl634W HCl634V Enclosure IP 23 IP 23 Voltage regulation (Max.) ±1% ±1% Class of Insulation H Class H Class Winding Pitch 2/3 2/3 Stator Winding Double layer lap Double layer lap Rotor Dynamically Balanced Dynamically Balanced Waveform distortion/ Total Harmonic No load < 1.5 %, Non	Total wet weight (Engine+Radiator)## (kg)	5800	5800							
Combustion air intake @100% load (±5%) (cfm) 2011 2103 Exhaust Temperature (°C) 520 521 Alternator Specification 520 521 Make Stamford (CGT) Stamford (CGT) Alternator frame HCl634W HCl634V Enclosure IP 23 IP 23 Voltage regulation (Max.) ±1% ±1% Class of Insulation H Class H Class Winding Pitch 2/3 2/3 Stator Winding Double layer lap Double layer lap Rotor Dynamically Balanced Dynamically Balanced Waveform distortion/ Total Harmonic No load < 1.5 %, Non	Length x Width x Height (Engine) (mm)	2269 x 1436 x 1764								
(cfm) Exhaust Temperature (°C) 520 521 Alternator Specification 521 521 Make Stamford (CGT) Stamford (CGT) Alternator frame HCI634W HCI634V Enclosure IP 23 IP 23 Voltage regulation (Max.) ±1% ±1% Class of Insulation H Class H Class Winding Pitch 2/3 2/3 Stator Winding Double layer lap Double layer lap Rotor Dynamically Balanced Dynamically Balanced Waveform distortion/ Total Harmonic No load < 1.5 %, Non	Mean piston speed (m/s)	7.95								
Alternator Specification Make Stamford (CGT) Stamford (CGT) Alternator frame HCI634W HCI634V Enclosure IP 23 IP 23 Voltage regulation (Max.) ±1% ±1% Class of Insulation H Class H Class Winding Pitch 2/3 2/3 Stator Winding Double layer lap Double layer lap Rotor Dynamically Balanced Dynamically Balanced Waveform distortion/ Total Harmonic No load < 1.5 %, Non		2011	2103							
Make Stamford (CGT) Stamford (CGT) Alternator frame HCI634W HCI634V Enclosure IP 23 IP 23 Voltage regulation (Max.) ±1% ±1% Class of Insulation H Class H Class Winding Pitch 2/3 2/3 Stator Winding Double layer lap Double layer lap Rotor Dynamically Balanced Dynamically Balanced Waveform distortion/ Total Harmonic No load < 1.5 %, Non	Exhaust Temperature (°C)	520	521							
Alternator frame HCI634W HCI634V Enclosure IP 23 IP 23 Voltage regulation (Max.) ±1% ±1% Class of Insulation H Class H Class Winding Pitch 2/3 2/3 Stator Winding Double layer lap Double layer lap Rotor Dynamically Balanced Dynamically Balanced Waveform distortion/ Total Harmonic Distortion distorting balanced distorting balanced distorting balanced linear load < 5 % Maximum Unbalanced Load across phases# Less than or equal to 25% HCI634V HCI634V HCI634V HCI634V End 23 Less than or equal to 25%	Alternator Specification									
Enclosure IP 23 IP 23 Voltage regulation (Max.) ±1% ±1% Class of Insulation H Class H Class Winding Pitch 2/3 2/3 Stator Winding Double layer lap Lay	Make	Stamford (CGT)	Stamford (CGT)							
Voltage regulation (Max.) Class of Insulation H Class Winding Pitch Stator Winding Botor Rotor Dynamically Balanced Waveform distortion/ Total Harmonic Distortion Distortion Distortion Maximum Unbalanced Load across phases# ### 1% ### Class ### Class ### Double layer lap Double layer lap Dynamically Balanced Dynamically Balanced Dynamically Balanced distorting balanced distorting balanced linear load < 5 % Maximum Unbalanced Load across phases# #### 25% ###################################	Alternator frame	HCI634W	HCI634V							
Class of Insulation H Class Winding Pitch 2/3 Stator Winding Rotor Dynamically Balanced Waveform distortion/ Total Harmonic Distortion Distortion Maximum Unbalanced Load across phases# H Class All Class H Class H Class H Class H Class All Class H Class All Class All Class H Class All Class All Class H Class H Class H Class All Class H Class All Class H Class All Class H Class All Class All Class H Class All Class All Class All Class All Class All Class H Class All Class	Enclosure	IP 23	IP 23							
Winding Pitch 2/3 2/3 Stator Winding Double layer lap Double layer lap Rotor Dynamically Balanced Dynamically Balanced Waveform distortion/ Total Harmonic No load < 1.5 %, Non No load < 1.5 , Non distorting balanced linear load < 5 % Maximum Unbalanced Load across phases* 2/3 2/3 2/3 2/3 2/3 2/3 2/3 2/	Voltage regulation (Max.)	±1%	±1%							
Stator Winding Rotor Double layer lap Dynamically Balanced Waveform distortion/ Total Harmonic Distortion Distortion Distortion No load < 1.5 %, Non distorting balanced linear load < 5 % Maximum Unbalanced Load across phases# Double layer lap Double laver lap Double la	Class of Insulation	H Class	H Class							
Stator Winding Rotor Double layer lap Double layer lap Dynamically Balanced Waveform distortion/ Total Harmonic Distortion Distortion Maximum Unbalanced Load across phases* Double layer lap Dynamically Balanced Dynamically Balanced Double layer lap Double laver lap Do	Winding Pitch	2/3	2/3							
Rotor Dynamically Balanced Waveform distortion/ Total Harmonic Distortion No load < 1.5 , Non distorting balanced linear load < 5 % linear load < 5 % Dess than or equal to Dynamically Balanced Distortion No load < 1.5 , Non distorting balanced Distortion Distortion Distortion No load < 1.5 , Non distorting balanced Distortion No load < 1.5 , Non distorting balanced Distortion No load < 1.5 , Non distorting balanced Distortion No load < 1.5 , Non distorting balanced Distortion No load < 1.5 , Non distorting balanced Distortion No load < 1.5 , Non distorting balanced Distortion No load < 1.5 , Non distorting balanced linear load < 5 % Distortion No load < 1.5 , Non distorting balanced Distortion No load < 1.5 , Non distorting balanced Distortion No load < 1.5 , Non distorting balanced Distortion No load < 1.5 , Non distorting balanced Distortion No load < 1.5 , Non distorting balanced Distortion No load < 1.5 , Non Distortion Distortion No load < 1.5 , Non Distortion Distortion No load < 1.5 , Non Distortion Distortion Distortion Distortion Distortion No load < 1.5 , Non Distortion Distort	Stator Winding	Double layer lap	Double layer lap							
Waveform distortion/ Total Harmonic Distortion No load < 1.5 %, Non distorting balanced linear load < 5 % Maximum Unbalanced Load across phases# No load < 1.5 , Non distorting balanced linear load < 5 % less than or equal to 25% No load < 1.5 , Non distorting balanced linear load < 5 % less than or equal to 25%	-									
linear load < 5 % linear load < 5 % Maximum Unbalanced Load across phases# less than or equal to 25% less than or equal to 25% less than or equal to 25%	Waveform distortion/ Total Harmonic									
phases# 25% 25%	Distortion									
Telephonic Harmonic factor < 2% < 2%										
	Telephonic Harmonic factor	< 2%	< 2%							

^{*} Fuel consumption data is based on diesel having specific gravity of 0.85 and conforming to IS:1460. Fuel consumption tolerance is +5% **Oil consumption data is based on oil having specific gravity of 0.89 and meeting CH4 API categories

^{*}With the condition that none of the phases exceeds its rated current

Rating Definitions

Prime Power (PRP):

Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528.

Conformance Standards

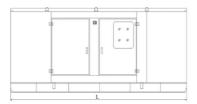
■ IS/IEC 60034-1 ■ IS 1460 ■ ISO 8528 ■ ISO 3046 ■ ISO 9001 ■ IS 13018

Typical Enclosed Genset Dimensions

Genset Model	Rating (kVA)	Length (mm)	Width (mm)	Height (mm)	Wet Weight## (kg)	Standard Fuel tank Capacity (litre)
C750D5P	750	8000	2600	3000	11900	990
C810D5P	810	8000	2600	3000	11900	990

** Approximate Weight





Authorised Representative



QNG Co., Ltd.

A:1L Street No. 18B, Binh Hung Hoa A, Binh Tan, HCMC $T: 028.36363724 \, | \, \textbf{F}: 028.36363714 \, | \, \textbf{www.qng.com.vn}$

Cummins Power Generation Offices

Tel.: (080) 2325 9161 / 63, 2325 9165 / 67 Bengaluru:

Fax: (080) 2325 9164 Tel.: (0172) 224 0371-73 Chandigarh:

Fax: (0172) 224 0372 Tel.: (044) 2446 8110 / 2446 8113 Chennai:

Fax: (044) 2491 1120 Tel.: (0124) 391 0900-01 Gurgaon:

Fax: (0124) 391 0916 Tel.: (040) 2340 9970 / 2340 9980 Hyderabad:

Fax. (040) 2340 9990

Tel.: (0141) 236 4944 Jaipur:

Fax: (0141) 403 8794 Tel.: (033) 2287 8065 / 2287 2481 Fax: (033) 2290 3839

Tel.: (0522) 230 5049 / 230 5059 Fax: (0522) 230 5035

Tel.: (0172) 224 0371 / 72 / 73 Fax: (0172) 224 0371 / 72 / 73 Mohali:

Tel.: (0265) 233 0627 / 3053627 Fax: (0265) 234 0623 Vadodara:





"Our energy working for you."

Cummins Power Generation and Cummins are registered trademarks of Cummins Inc. PowerCommand, AmpSentry, InPower and are trademarks of Cummins Power Generation. Other company product or service names may be trademarks or service marks of others. Specifications are subject to change without notice. PGBU/004/K38 750-810 kVA/SA/KG/February 2016



Cummins India Limited Power Generation Business Unit Cummins India Office Campus Tower-A, 6th Floor, S. No. 21, Balewadi, Pune – 411 045 (India)

Email: cpgindia@cummins.com www.cumminsindia.com