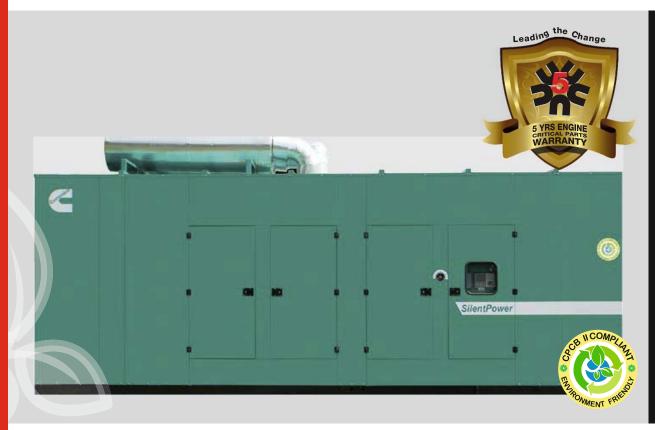


Diesel Generator Set K38 Series

910 kVA, 728 kWe Prime



Latest Technology Product with Global Cummins® Platform

- The Cummins[®] K38 series heavy-duty engine and world class Stamford alternator powered diesel generator set
- Proven technology with mechanical simplicity of Cummins® PT fuel system.
- Advanced in-cylinder technology and 2P2L Cooling system to meet latest emission norms
- Smart aesthetic and superior finish
- Compact in size with optimum power to weight ratio

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

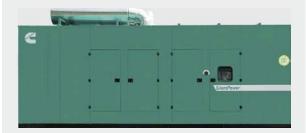
- Highly reliable and durable product
- All elements are designed to work together to maximize efficiency even at part loads, offering the advantage of lowest operating costs
- 300 Hours / 1 year service interval
- Industry acknowledged best-in-class comprehensive warranty on the entire package including 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, 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 stabilize engine speed under load with A1 class electronic governing
 - Spin on fuel filters
- Standard integral set-mounted radiator system, designed and tested for 50°C ambient temperature
- Full flow spin on lube oil filter
- Plate type lube oil cooler
- First fill of lube oil and coolant
- Electrical starter motor with soft start engagement feature
- Battery charging alternator
- 2x12 V DC batteries



Alternator

- Stamford HC6 alternator frames from Cummins Generator Technologies
- Brushless type, Screen protected, Revolving field, Self excited alternator conforming to IS/IEC 60034-1
- PMG standard
- Better motor starting capability
- Best in class efficiency
- Automatic Voltage Regulator MX321/322/341
- Compact design with sealed bearings for longer life and lesser maintenance
- Impregnation on all wound components for better mechanical strength

PS0601 Features

Cummins® PowerStart™
PS0601 control is a
microprocessor based
generator set monitoring,
metering and control system
with LCD display designed
to meet the demands of
today's engine driven
generator sets



- AMF Functionality
- Electronic Governing
- Sync Compatible (Capable to accept external speed and Voltage bias signal from 3rd party sync controller)
- Intuitive operator interface which includes LED backlit 128X64 pixel graphic display with tactile feel soft- switches & generator set status LED lamps.
- Remote start-stop
- Engine Metering: Oil pressure, Engine temperature, battery voltage, Engine running hours
- AC Alternator Metering: L-L Voltage and L-N Voltage,
- Current (phase and total), kVA (phase and total), Frequency, kWH, kW and kVA (phase and total), PF, Utility Voltage and Freq.
- Engine Protection: Low lube oil pressure, High / Low coolant
- temperature, Battery Over/Under/Weak Volts, Fail to Crank / Start, Sensor failure, Cranking lockout, Low fuel level.
- AC Alternator Protection: Over / Under Voltage, Over / Under
- Frequency, Loss of AC Sensing, Over speed, Over Current.
- Data Logging: Engine Hours, Control Hours and upto 5 recent fault codes
- Configurable glow plug control
- 12/24 Volt DC operation
- Sleep mode
- Modbus interface (RS485 RTU)
- InPower compatible (PC based service tool)
- Certifications meets the requirement of relevant ISO, EN, Mil Std. and CE standards Maintenance due alarm based on Engine Run Time and due date
- Exerciser scheduler

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

Controller: PC3.3

Acoustic Enclosure

- Specially designed to meet stringent MoEF/ CPCB norms of 75 dBA@ 1 mtr 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 8183
- 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
- Fuel filling arrangement inside the enclosure

Technical Data

Model

Generator Set Specification:

Model	Calobol			
Duty	Prime			
Power Rating kVA / kWe	910/728			
No. of Phases	3			
Output Voltage and Frequency 01 and Hz)	415 V, 50 Hz			
Power Factor	0.8 (lagging)			
Current (A)	1266			
RPM	1500			
Engine Specification:	#P			
Make	Cummins®			
Model	KTA38-G17			
MoEF Certified Power (bhp)	1069			
Required Power for Rated kVA (bhp)	1069			
Cooling	Liquid cooled (EG compleat 50:50)			
Aspiration	T urbocharged Aftercooled			
No. of cylinders	12, Vee			
Bore (mm) x Stroke (mm)	159 X 159			
Compression ratio	16.7:1			
Displacement (litre)	38			
Fuel	High Speed Diesel			
Fuel consumption @75% load with radiator and fan* (litre/hr)	151			
Fuel consumption @100% load with radiator and fan* (litre/hr)	191			
Performance class of generator set	ISO 8528-5 G2			
Starting system	24 V DC Electrical			
Lube oil specification	CH4 15W40			
Lube oil sump capacity, High-Low level (litre)	140- 114			
Total lubrication system capacity (litre)	155			
Total coolant capacity (litre)	332			
No. of banks x Exhaust pipe size (inch)	2 x 8			
T otal wet weight (Engine+Radiator)" (kg)	5400			
Length x Width x Height (Engine) (mm)	2269 X 1436 X 1764			
Mean piston speed (m/s)	7.95			
Combustion air intake @100% load (±5%) (cfm)	2334			

C910D5P

Exhaust Temperature (0C) Alternator Specification:

Alternator opecinication.	
Make	Stamford (CGT)
Alternator frame	HCl634V
Enclosure	IP 23
Voltage regulation (Max.)	±1%
Class of Insulation	H Class
Winding Pitch	2/3
Stator Winding	Double layer lap
Rotor	Dynamically Balanced
Waveform distortion/ Total Harmonic Distortion	No load < 1 .5 %, Non distorting balanced linear load < 5 %
Maximum Unbalanced Load across phases'	less than or equal to 25%
Telephonic Harmonic factor	<2%

449

^{*}Fuel consumption data is based on diesel having specific gravity of 0. 85 and conforming to IS: 1460. Fuel consumption tolerance is +5% "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

■ ISO 8528

■ ISO 9001

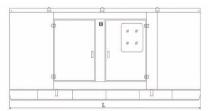
■ IS 13018 ■ ISO 3046 ■ ISO 1460

Typical Enclosed Genset Dimensions

Genset	Rating	Length	Width	Height	Wet Weight##	Standard Fuel tank
Model	(kVA)	(mm)	(mm)	(mm)	(kg)	Capacity (litre)
C910D5P	910	8000	2600	3000	11500	990

^{##}Approximate Weight





Authorised Representative

Cummins Power Generation Offices

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

Fax: (080) 2325 9164

Tel.: (0172) 224 0371-73 Chandigarh:

Gurgaon:

Jaipur:

Fax: (0172) 224 0372

Chennai: Tel.: (044) 2446 8110 / 2446 8113 Fax: (044) 2491 1120

Tel.: (0124) 391 0900-01 Fax: (0124) 391 0916

Hyderabad: Tel.: (040) 2340 9970 / 2340 9980

Fax: (040) 2340 9990 Tel.: (0141) 236 4944 Fax: (0141) 403 8794

Tel.: (033) 2287 8065 / 2287 2481 Kolkata:

Fax: (033) 2290 3839

Tel.: (0522) 230 5049 / 230 5059 Lucknow:

Fax: (0522) 230 5035

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

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



https://www.facebook.com/cumminsindiaofficial/





https://www.instagram.com/cumminsindiaofficial/



https://www.cummins.com/en/in/products/diesel-generators





Cummins India Limited Power Systems Business Unit Cummins India Office Campus Tower-A, 8th Floor, S. No. 21, Balewadi, Pune - 411 045 (India)

Phone: +91 20 6706 7000 Toll Free: 1800-210-2525* Email: saeindia@cummins.com www.cummins.com