



شركة أولاد عبدالوهاب عبدالعزيز القطامي
Abdulwahab Abdulaziz Al Qatami's Sons Co.

Power of One™

Fully integrated, reliable & efficient



Powering the world, meeting customer needs, building relationships— this is Cummins Power Generation

Cummins Power Generation India is the leading manufacturer and market leader of diesel fuel power systems. It is a single window provider of complete power solutions offering top-of-the-line products (diesel and gas) and services. Cummins Power Generation India provides total power solutions, right from design to execution and operations to service support.

Cummins Power Generation has the expertise to successfully meet the power requirements of a wide range of individual and institutional customers. Important sectors for power generation solutions are Telecom, Construction, IT/ITES, Realty, Hospitality, Textiles, Auto & Auto Ancillaries, Food Processing, Data Center, Infrastructure, Pharma and Manufacturing sector.

Fully integrated- reliable- efficient

Cummins Power Generation specializes in the design and manufacture of pre-integrated generator sets, transfer switches, paralleling equipment and controls for use in standby, prime and continuous rated systems. All major components - the engine, alternator and control systems - are manufactured by Cummins entities. This integral approach means each element of the generator set is designed to work in harmony right from the start.

The Power of One™

Cummins Power Generation brings you the Power of One™, which guarantees simple installation and minimal problems during commissioning and maintenance. This means

pre-integrated design rather than having the engine, alternator, controls and transfer switches, all from different manufacturers. The Power of One™ ensures that you get the added benefit of components created to work together- designed, built, pre- integrated and serviced by Cummins Power Generation for Reliability, Optimum system performance and Minimum system cost.

Pre-integrated design offers advantages for Consulting specifying engineers, Building owners, Facility managers, Electrical contractors and Electrical consultants.

Integrated products and services

- Diesel generator sets, from 7.5 to 3000 kVA
- Natural gas generator sets, from 40 kW to 2000 kWe
- Producer Gas, Bio Gas and Coal Bed Methane Generator from 25kW to 2000 kWe
- PowerCommand® digital control electronics for system paralleling, remote operation and monitoring
- Automatic Transfer Switches from 40 A to 4000 A and Power Quality products
- Power Factor Correction (RTPFC) products from 125 kVAR to 2250 kVAR
- 75 dBa environment-friendly acoustic enclosures manufactured as per CPCB norms and other critical accessories
- Design consulting and project management
- Turnkey power plant design
- Installation and commissioning
- O&M Contracts

Diesel Generator sets

Cummins powered diesel generator sets are available in sizes ranging from 7.5 to 3000 kVA. Whether your application is for prime or continuous power, or if reliable standby power is critical to your business, we provide standard features. Heavy-duty Cummins engines are known for fuel efficiency, responsive transient performance and rugged reliability. Each generator set includes a cooling system that is designed to provide guaranteed performance in high ambient temperatures, so you get all the power you pay for. High performance Cummins manufactured alternators offer optimum performance in demanding applications, such as data centers and industrial plants.

User-friendly operation and maintenance features include:

- Heavy-duty engines and high performance alternators
- Mechanical and electronic governing systems and electronic voltage regulation
- Optional control systems for automatic, local or remote-start synchronizing applications
- Weather-protective and sound attenuated enclosures, coolant heaters and other features to enhance performance and reliability in extreme ambient environments
- Complete set of accessory devices designed for use with the generator set to simplify installation and enhance reliability



'X' series (7.5 to 25 kVA)

The Cummins 'X' series ready-to-use generator sets with 2 cylinder (7.5 - 15 kVA) and 3 cylinder (20 - 25 kVA) inline configuration diesel engines are the most compact, smaller foot print, light weight and easy to service. Built-in vibration mounts, a completely wired control system including engine protection, instrumentation, residential silencer, heavy-duty air cleaner fuel tank constitute its special features. These generator sets have CPCB certified emission compliance, thus offering environment-friendly power.

Engines in this series are naturally aspirated, fuel efficient and have low lube oil consumption.

Generator set model	Engine model	BHP rating at 1500 RPM	kVA (Prime)	Bore (mm)	Stroke (mm)	Disp. (ltrs)
C 7.5 D5	X1.3 G2	15.78	7.5	95	91	1.29
C 10 D5	X1.3 G2	15.78	10	95	91	1.29
C 15 D5 P	X 1.7 G1	20	15	91.44	127	1.7
C 20 D5 P	X 2.5 G2	32	20	91.44	127	2.5
C 20 D5 P	X 2.5 G2	32	25	91.44	127	2.5



'S' series (30 to 62.5 kVA)

The 'S' series are 4 cylinder naturally aspirated, turbocharged and after cooled models. Engines in this series are simple, compact, reliable, fuel efficient exhibiting minimal noise and vibration levels.

Generator set model	Engine model	BHP rating at 1500 RPM	kVA (Prime)	Bore (mm)	Stroke (mm)	Disp. (ltrs)
C 30/35 D5 P	3.8 G3	45	30/35	97	128	3.8
C 40 D5 P	S 3.8 G4	58	40	97	128	3.8
C 50 D5 P	S 3.8 G6	69	50	97	128	3.8
C 62.5 D5 P	3.8 G7	80	62.5	97	128	3.8



'C' series (180 to 250 kVA)

The 'C' series 6 cylinder inline configuration engines with 'unitized' block design have been developed to exhibit high levels of durability and reliability. This combined with high power to weight ratio and small footprints make the 'C' series engine powered generator sets the obvious choice for mission critical power needs.

Generator set model	Engine model	BHP rating at 1500 RPM	kVA (Prime)	Bore (mm)	Stroke (mm)	Disp. (ltrs)
C 180 D5 P	6 CTA 8.3 G2-I	220	180	114	135	8.3
C 200 D5 P	6 CTA 8.3 G1-I	245	200	114	135	8.3
C 250 D5 P	6 CTA 8.3 G4	310	250	114	135	8.3



'B' series (75 to 160 kVA)

The 'B' series 6 cylinder inline configuration engines are light weight, easy to service with fewer parts leading to lower maintenance cost.

Generator set model	Engine model	BHP rating at 1500 RPM	kVA (Prime)	Bore (mm)	Stroke (mm)	Disp. (ltrs)
C 75/82.5 D5 P	6 BT 5.9 G1	105	75/82.5	102	120	5.88
C 100 D5 P	6 BTA 5.9 G5	124	100	102	120	5.88
C 125 D5 P	6 BTAA 5.9 G3	154	125	102	120	5.88
C 140 D5 P	6 BTAA 5.9 G4	170	140	102	120	5.88
C 160 D5 P	6 BTAA 5.9 G5	195	160	102	120	5.88



'K 19' series (500 kVA)

The 'K 19' series, 6 cylinder, inline engine design features have made Cummins diesel the standard for comparison of operating economy, reliability and long life. When all cost factors like initial capital investment, fuel, maintenance and overhaul are considered, the bottom line shows that this compact Cummins engine delivers the lowest life cycle cost.

Generator set model	Engine model	BHP rating at 1500 RPM	kVA (Prime)	Bore (mm)	Stroke (mm)	Disp. (ltrs)
C 500 D5 P	KTA 19 G9	600	500	159	159	18.6



'N' series (320 and 380 kVA)

The 'N' series 6 cylinder, inline engines are simple in design and are available in both turbocharged and turbocharged - after cooled versions.

Engines in this series are the real workhorses which have clocked millions of hours, operating in some of the world's most demanding applications and climatic conditions. These engines are available with advancements like; pulse tuned manifold, low temperature after cooling and large capacity gear pump for pressure lubrication. Large volume coolant passages provide an even flow of coolant. All these contribute to higher thermal efficiency and durability.

Generator set model	Engine model	BHP rating at 1500 RPM	kVA (Prime)	Bore (mm)	Stroke (mm)	Disp. (ltrs)
C 320 D5 P	NTA 855 G2-I	380	320	140	152	14.0
C 380 D5 P	NTA 14 G3	450	380	140	152	14.0



'V 28' series (600 and 625 kVA)

The 'V 28' series 12 cylinder engines are proven for their reliability and durability. Upgraded with new technologies for greater performance and economy, these are exported to various Cummins entities across the world.

Generator set model	Engine model	BHP rating at 1500 RPM	kVA (Prime)	Bore (mm)	Stroke (mm)	Disp. (ltrs)
C 600 D5 P	VTA 28 G3-I	710	600	140	152	28.0
C 625 D5 P	VTA 28 G5-I	750	625	140	152	28.0



'K 38' series (750 to 1010 kVA) and 'K 50' series (1250 and 1500 kVA)

12 and 16 cylinder 'K' series 'V' configuration engines perform with maximum durability and economy. Individual cylinder head, gear driven water pump, self tensioning fan drive and easy serviceability are some of the features. To help you increase your profits is higher fuel efficiency and superior performance over a wide range of operating loads.

Generator set model	Engine model	BHP rating at 1500 RPM	kVA (Prime)	Bore (mm)	Stroke (mm)	Disp. (ltrs)
C 750 D5 P	KTA 38 G2-I	890	750	159	159	37.8
C 800 D5 P	KTA 38 G3-I	950	800	159	159	37.8
C 1010 D5 P	KTA 38 G5	1180	1010	159	159	37.8
C 1250 D5 P	KTA 50 G3	1470	1250	159	159	50.3
C 1500 D5 P	KTA 50 G8-I	1735	1500	159	159	50.3



'QSK 23' series (750 kVA)

The 'QSK 23' series direct injection, water cooled, 6 cylinder, 4 stroke diesel engine has state-of-the-art, full authority electronics, HPI-PT fuel system, purpose designed power cylinder components and a host of safety and protection features that make it the most versatile engine in it's class. They are the most compact in-line engines with unmatched power to weight ratio, electronics and are ready for next level emission norms. They boast optimised charge air cooling, heavy duty camshafts and optimised turbocharging with exceptional fuel efficiency across the operating range.

Generator set model	Engine model	BHP rating at 1500 RPM	kVA (Prime)	Bore (mm)	Stroke (mm)	Disp. (ltrs)
C 750 D5 P	QSK 23 G3-I	880	750	170	170	23

'QST 30', 'QSK 60' & 'QSK 78' series (1000 to 3000 kVA)

The QST 30, QSK 60 and QSK 78 models with higher capacities come armed with electronic controls and PC based service tool software for better genset protection, prognosis and diagnosis that translates into lower downtime and higher productivity.

Generator set model	Engine model	kVA (Prime)	Bore (mm)	Stroke (mm)	Disp. (ltrs)
C 1100 D5	QST 30 G4	1110 (Standby)	140	165	30
C 2000 D5	QSK 60 G3	1875	159	190	60
C 2250 D5	QSK 60 G4	2000	159	190	60
C 2750 D5	QSK 78 G9	2750	170	190	78
C 3000 D5	QSK 78 G9	3000 (Standby)	170	190	78

Gas Generator sets



To leverage the enormous potential of natural gas, producer gas, bio gas & coal bed methane, Cummins has been developing gas engine technology for longer than four decades. The Company has more than 10000 of its gas engine generator sets operating all over the world and over 1500 in India alone.

Gas power solutions from Cummins can be used for co-generation, continuous power supply, grid parallel and island mode operation. Usage of gaseous fuels like natural gas, producer gas, bio gas, coal bed methane etc., offer visible advantages like:

- Cleaner Emissions
- Reliability
- Economy
- Compactness



The spark ignition engines from Cummins' offer better fuel economy, cleaner emissions, higher durability and extended oil filter change period.

Cummins' gas-powered generators are powered by proven four-stroke, high speed, spark ignited engines designed for increased performance and reduced emissions. Using a lean mixture of air and fuel reduces the combustion temperatures significantly, resulting in high power output with maximum thermal efficiency and minimum emissions. There are already over 3100 MW of installed generator set operating around

the world in tropical as well as cold climatic conditions varying from 50 deg C to -40 deg C ambient temperature..

Lean Burn Gas Generator sets

Some salient features of our Natural Gas fuelled Generator Sets for base-load application are:

- High Durability rugged design with extended maintenance intervals.
- High efficiency using Lean-Burn technology.
- Close loop Control for better knock control to control emission at lower loads to 40%.
- Exclusive microprocessor based control module with continuous monitoring of engine and generator set parameters.
- Compact Modular design to reduce installation cost.
- In built digital synchronization and integrated auto load sharing feature.
- First Start Sensor determining preferential auto closing of breaker of in multiple genset installation.
- Highest single step block load absorbing capacity in its range.

Lean Burn Gas Generators

Model	Cylinders	Output.(kWe)	Duty Cycle
315GFBA	6	315	C
575GCHA	12	575	C
C 995 N5C	16	995	C
C 1160 N5C	16	1160	C
C 1200 N5C	16	1200	C
C 1400 N5C	16	1400	C
C 1540 N5C	18	1540	C
C 1750 N5C	18	1750	C
C 2000 N5C	18	2000	C

Waste Heat Recovery Systems

Cummins offer Gas based power plant along with combined heat & power applications on turnkey basis from concept to commissioning. We study customer's process & energy needs and offer the most optimum system configuration to maximise cash savings. A CHP application consists of a generating set to produce electricity, and a waste heat recovery system to capture heat lost from exhaust and cooling water jacket to turn it into usable form of energies for customer process.

The overall efficiency of the gas engine based power plant along with CHP can be raised to over 85 %. It can significantly reduce your energy consumption and costs, increase power reliability, and minimize your greenhouse gas footprint.

Various options of recovering heat from gas generating set

- Hot Water
- Steam
- Thermic Fluid
- Hot Air / Spray Drying
- Chilling

Natural Gas Generating sets can be used along with waste-heat recovery in the following industries:

- Automotive
- Coal mining and oil fields
- Textile
- Manufacturing Facilities
- Industrial/ Chemical Plants
- Commercial Facilities
- Hospitals and nursing homes
- Hotels
- Food Processing Plants
- Landfill sites
- Coal bed Methane
- Well Head Gas

"Think outside The Grid"

Special Gas Generating Sets



To support global environment needs and rural development program, Cummins India is manufacturing and supplying engines which run on Producer Gas and Bio Gas. The major differences in these as compared to Natural Gas engines are related to the fuel and ignition systems. These engines have been designed to run on producer gas successfully and achieve desired performance, reliability and durability without compromise on safety.

Producer Gas Engine Generating Sets

Producer gas is generated in a device known as 'Gasifier', wherein thermo-chemical conversion of biomass occurs in a limited supply of air.

Biomass fuel can be dry wastes like wood, agro-residues/waste, coconut shells, loose biomass like rice husk or willow dust in briquette form, coffee and other plantation wastes.

Model	Cylinders	Disp. (Ltrs.)	Rating (kVA/Kwe)	Duty Cycle
C 40 P G5 P	6	5.9	25	C
C 70 P G5 P	6	14	70	C
C 125 P G5 P	6	14	120	C
C 240 P G5 C	12	28	240	C

Bio Gas engine Generating Sets

Biogas typically refers to a gas produced by the biological breakdown of organic matter in the absence of oxygen. Biogas is produced by the anaerobic digestion or fermentation of biodegradable materials such as dead plant and animal material, animal dung, kitchen waste, manure, sewage, municipal waste and green waste. Biogas comprises primarily of methane

(CH₄) and carbon dioxide (CO₂) and may have some amounts of hydrogen sulphide (H₂S), moisture and siloxanes.

Model	Rating (Kwe)	Duty Cycle
G6B5.9G	32	C
G855G	80	C
C 1540 N5C	1540	C
C 1750 N5C	1750	C
C 2000 N5C	2000	C

Stoichiometric Generator Sets

A mixture of fuel and air enters the engine through a carburettor. The ignition system comprises of ignition distributor, ignition transformer and a spark plug. The air-fuel mixture is ignited at set point to start combustion.

Cummins Gas uses specially designed components to make the engine much more robust structurally than any other conventional spark ignited engine. The combustion chamber components are designed to withstand high cylinder temperatures and peak pressures. This lowers the stress levels resulting in longer service life, higher reliability and lower maintenance cost.

Model	Prime Power (kWe) 50Hz	Base Load (kWe) 50Hz
G 6B 5.9 G	40	32
G 855 G (BC)	100	85
GTA 855 G(BC)	144	122
GTA 1710 G	304	245
GTA 1150 G	200	160
GTA 2300 G	400	320
GTA 3067 G	500	400

The simple & robust design, user friendly controls, 'easy to handle technology' ideally make these products suitable for all applications especially on well head gas, remote sites for 24x7 reliable and dependable operations as well as stand-by applications.

Power Electronics

Automatic Transfer Switches

The Automatic Transfer Switches from the Cummins Power Generation play a critical role in on-site emergency standby power systems by transferring electrical loads from utility service to an alternative power source, such as standby generator, in the event of failure of the primary power source. The product returns the load to primary power, once the utility is back and voltage stabilizes.

The ATS is suitable for critical applications such as hospitals, hotels, data centers, commercial complexes, malls, telecom and process industries where power failure results in loss of major processes and machinery. In India, Cummins Power Generation transfer switches are available in the 40 amps to 4000 amps range, offering safe, dependable and easy-to-use power transfer for modes such as open-transition, in-phase transition backed up by programmed-transition, closed-transition and bypass isolation transfers. They are built for optimizing system reliability and performance while reducing maintenance costs and enhancing the entire system.



OTPC

- > Open, closed or programmed transition
- > 40-4000 amps
- > 3- and 4-pole
- > UL-labeled



BTPC

- > Open, closed or programmed transition
- > 150-4000 amps
- > 3- and 4-pole
- > UL-labeled



GTEC

- > Open or programmed transition
- > 40-2000 amps
- > 2-, 3- and 4-pole
- > IEC and CE- labeled

Power Quality Solutions

Cummins Power Electronics specializes in conducting a comprehensive Power Quality Analysis (PQA) to study the peculiarity of an application, impact of Harmonic levels on sources, rate of change of load for correct evaluation of the solution offered for power factor improvement and most importantly correct genset sizing for highly non-linear loads.

Cummins Power Electronics provides world-class customized solutions like:

- Power Quality Analysis
- Real Time Power Factor Compensation cum Harmonic Filtration System (RTPFC)
- Dynamic Reactive Power Factor Compensation cum Harmonic Filtration System (DRPC)

PQA



RTPFC



DRPC



Acoustic enclosures for diesel generator sets ranging from 7.5 to 1000 kVA.

For thousands of small and midsize projects standby power is delivered silently with the help of our acoustic enclosures branded 'SilentPower™'. Manufactured for generator sets rating between 7.5 kVA to 800 kVA, these enclosures meet stringent industry norms for emission specified by the Ministry of Environment

and Forest [MOEF], Government of India [GOI], as per notification no. GSR 371 (E) dated May 17, 2002 and are certified for noise control levels of 75 dbA at 1 meter distance by the MOEF, GOI appointed nodal agencies. Developed by a team of highly skilled and proficient engineers from Cummins Power Generation and its channel partners, these acoustic enclosures are designed to meet world-class sound attenuation levels.

Typical acoustic enclosure dimensions*

Generator set model	Prime rating (kVA)	Engine model	Enclosure dimensions		
			Length (mm)	Width (mm)	Height (mm)
C 7.5 D5 P	7.5	X 1.3 G2	1456	847	1032
C 10 D5 P	10	X 1.3 G2	1456	847	1032
C 15 D5 P	15	X 1.7 G1	2400	900	1375
C 20 D5 P	20	X 2.5 G2	2400	900	1375
C 25 D5 P	25	X 2.5 G2	2400	900	1375
C 30 D5 P/C 35 D5 P	30/35	S 3.8 G3	2800	1150	1450
C 40 D5 P	40	S 3.8 G4	2800	1150	1575
C 50 D5 P	50	S 3.8 G6	2800	1150	1575
C 62.5 D5 P	62.5	S 3.8 G7	2950	1150	1575
C 75 D5 P/C 82.5 D5 P	75/82.5	6 BT 5.9 G1	3850	1150	1700
C 100 D5 P	100	6 BTA 5.9 G5	4000	1150	1700
C 125 D5 P	125	6 BTAA 5.9 G3	4000	1150	1700
C 140 D5 P	140	6 BTAA 5.9 G4	4000	1150	1700
C 160 D5 P	160	6 BTAA 5.9 G5	4500	1500	1850
C 180 D5 P	180	6 CTA 8.3 G2-I	4500	1500	1850
C 200 D5 P	200	6 CTAA 8.3 G1-I	4500	1500	1850
C 250 D5 P	250	6 CTAA 8.3 G4-I	4650	1700	2050
C 320 D5 P	320	NTA 855 G2 (BC)	5300	1500	2025
C 380 D5 P	380	NTA 14 G3	5300	1500	2025
C 500 D5 P	500	KTA 19 G9	6500	2000	2300
C 600 D5 P	600	VTA 28 G3	6600	2100	2702
C 625 D5 P	625	VTA 28 G5-I	6600	2100	2702
C 750 D5 P	750	KTA 38 G2-I	7500	2500	2925
C 800 D5 P	800	KTA 38 G3-I	7500	2500	2925
C 750 D5 P	750	QSK 23 G3-I	7000	2200	2500

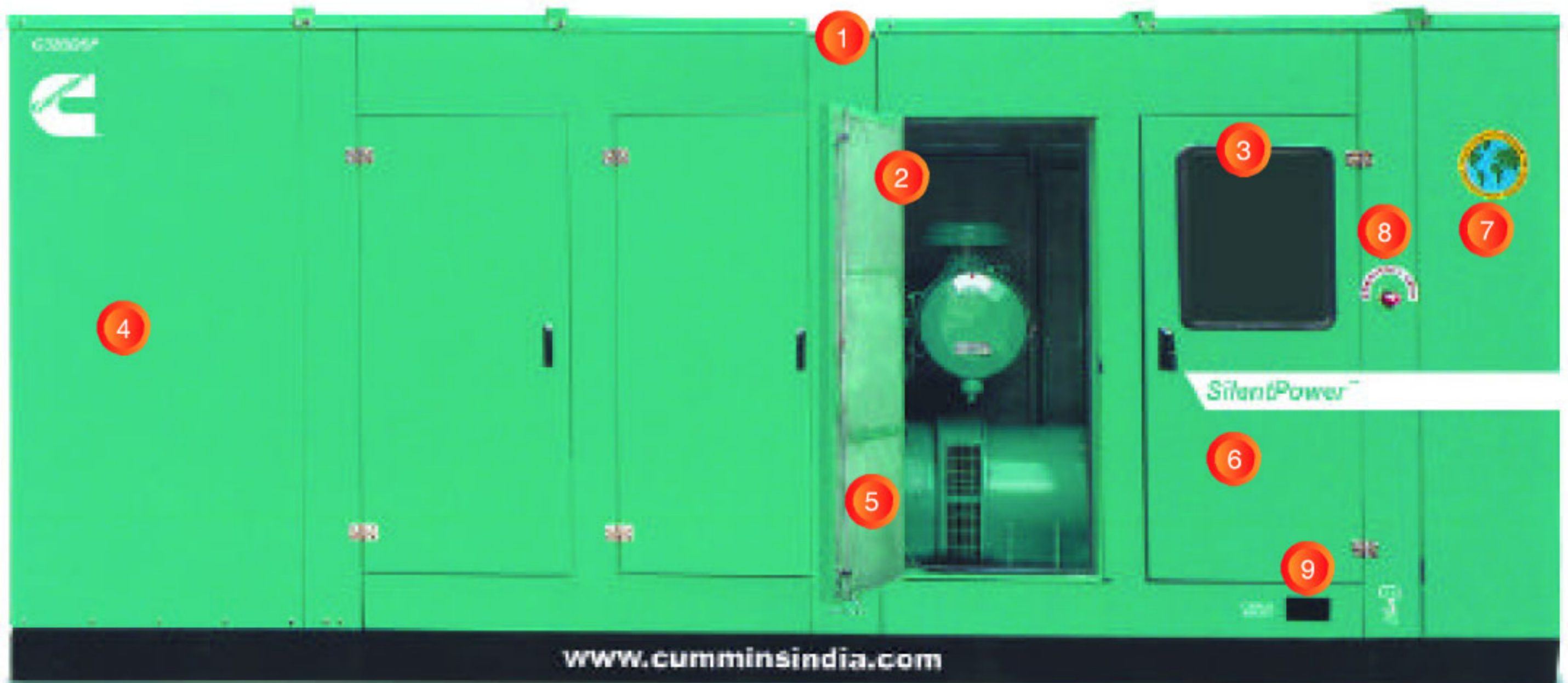
*Dimensions of the enclosure are excluding the silencer. The information contained in this publication is typical only. It does not form part of any contractual commitment and is subject to change without notice.

In addition, these compact weatherproof enclosures offer easier serviceability and maintenance and a host of other user-friendly features such as an instrument panel viewing window, single point lifting for easy handling, and a built-in fuel tank.

State-of-the-art manufacturing facilities such as, CNC machines and automated welding, painting and powder coating processes, ensure uniform paint quality and superior finish for a longer and more durable life even at outdoor applications. The 1.6/2mm gauge CRCA sheets provide greater strength and longer shelf life whilst the specially manufactured EPDM gasket fittings help prevent sound leakage. Specially designed lifting points on the base frame assist in load sharing during lifting. Provision of an emergency push button on the outside of the enclosure is in adherence to the required safety measures.

Design and features

1. Single point lifting for easy handling at customer site (up to 380 kVA)
2. Wide access doors for easy maintenance
3. Instrument panel viewing window
4. Compact design
5. Long lasting acoustic insulation behind perforated steel for attenuation
6. Integrated enclosure design with built-in fuel tank
7. Every enclosure is certified to meet the noise control norms
8. Recessed, easily accessible emergency stop button
9. Cable entry provision for easy installation at site



PowerCommand® Controls

Optimise performance with PowerCommand® controls

Only generator sets from Cummins Power Generation are available with integrated PowerCommand® controls. PowerCommand® controls offer the capability of integrated digital paralleling, substituting less reliable, complex and expensive paralleling equipment with simple, off-the-shelf solutions.

Main features	Model			
	PS 0500	PCC 1.1	PCC 3.3	PCC 3201
General				
AVR	x	■	■	■
Electronic governing	x	○	■	■
Glow plug control	■	■	x	x
Cycle cranking	■	■	■	■
Full authority engine control	x	x	x	■
Networking (LonWorks)	x	x	○	○
Fault history	■	■	■	■
Operator interface				
Manual start/stop	■	■	■	■
Auto/remote start	■	■	■	■
Exercise function	x	x	x	■
Auto led	■	■	x	x
Not in auto LED	x	■	■	■
Manual LED	■	■	x	■
Common shutdown LED	■	■	■	■
Common warning LED	■	■	■	■
Exercise LED	x	x	x	■
Fail to start LED	x	x	x	x
Emergency stop	■	■	■	■
Alpha/numeric screen	■	■	■	■
Remote start input active led	■	■	x	■
Fault reset	■	■	■	■

Threshold warning indicators

Low oil pressure	■	■	■	■
Low engine coolant temp.(warning)	x	■	■	■
High engine coolant temperature	■	■	■	■
Low coolant level	■	x	■	■
Low battery voltage	■	■	■	■
High battery voltage	■	■	■	■
Battery alt.charge fault	■	■	x	x
Over current	x	■	■	■
Overload	x	x	■	■

Main features	Model			
	PS 0500	PCC 1.1	PCC 3.3	PCC 3201
Paralleling capability				
Auto synchronising (isolated bus)	x	x	■	■
kWe & VAr load sharing control	x	x	■	■
Auto synchronising (utility bus)	x	x	■	■
Base load (utility bus)	x	x	■	■
Synchroscope	x	x	■	■

Power transfer function

Open transition transfer	x	x	x	○
Hard closed transition	x	x	x	○
Soft closed transition (ramping)	x	x	x	○
Transfer & base load (utility)	x	x	x	○
Gen/mains breaker control	x	x	x	○
Gen/mains breaker status protection	x	x	x	○

Environment

Operating temperature range -40°C to +70°C	-15 to +70°C	■	■	■
Humidity up to 95% (non condensing)	95%	■	■	■

Shutdown protection & indication - Engine

Low fuel level	■	○	■	■
High fuel level	x	x	x	x
Low oil pressure	■	■	■	■
High engine coolant temperature	■	■	■	■
Failure to crank shutdown	■	■	■	■
Over crank (failure to start)	■	■	■	■
Overspeed	x	■	■	■

Shutdown protection & indication - Alternator

Under & over voltage	■	■	■	■
Under & over frequency	■*	■	■	■
Overcurrent	x	■	■	■
Earth leakage	x	○	○	○
Reversepower	x	x	■	■
Reverse VAr	x	x	x	■



PS0500



PCC1.1

PowerCom® Controls



Main features	Model			
	PS 0500	PCC 1.1	PCC 3.3	PCC 3201

Codes & standards				
CE compliant	■	■	■	■
NFPA110	NFPA99	■	■	■
UL 508-listed / recognized	x	■	■	■
UL-certified	x	■	■	■

Customer configurable inputs & outputs				
Digital inputs (shutdown, warning or status)	■ (1)	■ (2)	N/A	N/A
Digital outputs (shutdown, warning or status)	(1)	x (4)	■	■

Measurement & instrumentation - Engine				
Oil pressure	■	■	■	■
Oil temperature	x	x	○	○
Water temperature	■	■	■	■
Engine speed	x	■	■	■
Hours run	■	■	■	■
Number of starts	x	■	■	■
Battery voltage	■	■	■	■
Exhaust temperature	x	x	○	○

Measurement & instrumentation - Alternator				
3 Phase L-L & L-N voltage & frequency	■	■	■	■
3 Phase current	■	■	■	■
kWh	x	x	■	■
Total kVa	■	■	■	■
Total kWe & kVAr	x	x	x	■
PF	x	x	■	■
Per phase kVAr, kWe	x	x	x	■
Per phase kVA	■	x	x	■

- Standard
- x Not Available
- Option
- N/A Not Applicable
- * Under frequency
- *' Common shutdown fault (single output)



PCC3100



PCC3201

PowerCom® control is a microprocessor based generator set monitoring, protection and electronic governing system that offers an advanced level of functions for reliability and optimum generator set performance. The controller is designed in such a way that it supports a wide range of genset configurations. PowerCom® is offered as a standard for gensets in the 320 kVA to 625 kVA range.

Standard features

Governor and speed / frequency regulation

Integrated electronic governing
(adjustable up to 5%)

Operator interface

Manual Stop / Start
Remote Start / Stop
Cyclic cranking
Alpha numeric screen
Alternator trim adjustment
Model specific calibration
Field trim adjustment

AC instruments

3-Phase AC Amps
3-Phase AC Volts
kW
kVA
Power factor
Frequency

Measurements / Instrumentation

Lube oil pressure
Coolant temperature
Engine speed
Hours run
Battery Voltage

Engine protection

High coolant temperature
(warning & shutdown)
Low lube oil pressure
(warning & shutdown)
Fail to crank (shutdown)

Fail to start (shutdown)

Over speed (shutdown)

Low / High battery voltage (warning)

Low coolant level shutdown

AC protection

Over frequency (shutdown)
Over current (warning)
Over Voltage (shutdown)
Under Voltage (shutdown)
Under frequency (warning)

Miscellaneous

Operating temperature range 0-60 °C
Common fault alarm
Common shutdown
Battery voltage
Date and time stamps for alarms
Dimensions (in mm) are 267*378*157

Additional features

Speed bias or raise / lower inputs are provided for paralleling
Remote monitoring capability through separate interface modules
Engineering tool / manufacturing tool / service tool compatibility with existing tools
6 configurable discrete outputs
2 configurable discrete inputs
Fault indication on front panel display using fault LEDs
Smooth transition to rated speed
Programmable fault thresholds
Controlled ramping to restrict start up smoke

Dependable after-market support

Cummins helps your business achieve greater success by providing unmatched support and service through every phase of your power application project.

We offer robust and efficient generator sets for standby and continuous power generation.

For standby and backup power, we have Diesel Generator Sets. For continuous Power Generation, we have Gas Generator sets – which run on a variety of fuels, namely Natural Gas, Bio Gas, Producer Gas, Coal Bed methane and Well-head gas.

Our very own Distribution Business Unit sees to it that you receive prompt service, round-the-clock. This task is supported by over 36 authorized dealers located across the Country.

Our 24x7 toll-free Customer Care 1-800-2332000 will put you in touch with one of our helpful, trained engineers, who will guide you through the servicing and maintenance of your Cummins gensets.

We strive to ensure we offer the best products and services so that you can depend on us.

Key facts about Cummins services:

Over 36 authorized dealers across the country.



شركة أولاد عبدالوهاب عبدالعزيز القطامي
Abdulwahab Abdulaziz Al Qatami's Sons Co.

Canada Dry Street next to Ghannam

Telephone: 24849135

Fax: 24831678

Mobile: 96960072

info@alqatami-gen.com

Cummins service network

- CIL Factory
- CSSoffices
- Dealer locations
(Multiple service branches)
- Parts distribution centres
- CSS parts depots

As a user of Cummins products, you can expect a face-to-face relationship with someone worthy of your trust and fast access to reliable service, engineering expertise and parts support. DBU service outlets are spread strategically across the Country with technicians trained to the highest Cummins standards.