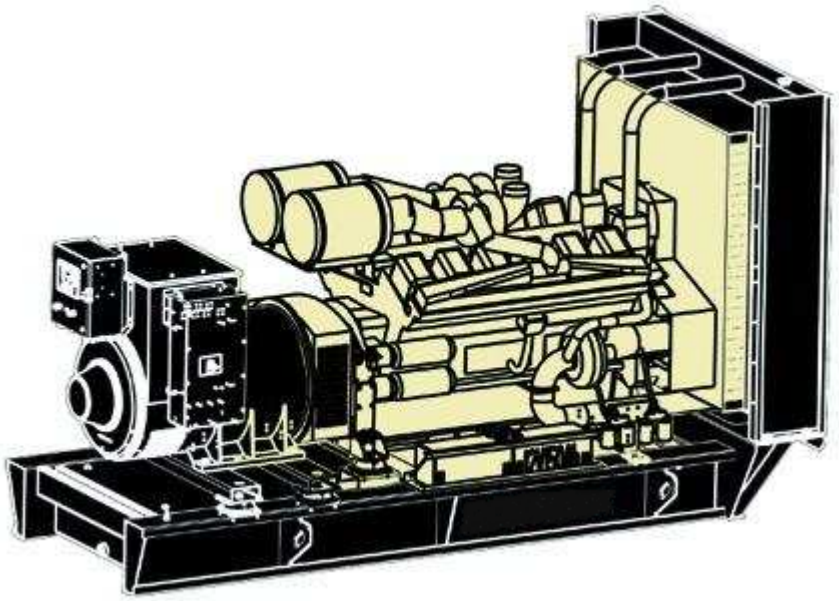
EC Series

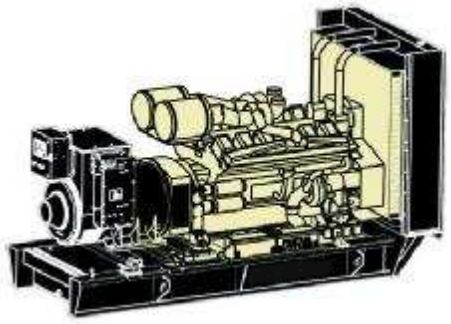
GMS1250C

— Generator Set Specification



Your Partner for Power…

GMS1250C



3-Phase, 50Hz@1500RPM				
	Voltage	kW	kVA	Amps
Prime Power	380	976	1250	1899.2
	400	976	1250	1804.3
	415	976	1250	1739.1
	440	976	1250	1640.2
Standby Power	380	1084	1356	2110.3
	400	1084	1356	2004.7
	415	1084	1356	1932.3
	440	1084	1356	1822.5
Noise Level at 7 meters (dBA)			100.8	

Notes:

1) Ambient reference conditions: 1,000 mbar, 27℃, 30% relative humidity;
2) Standby Power: the maximum power available under varying loads. Only for standby and emergency use. No overload is permissible. Prime Power: the maximum power available under varying loads for continuous operation. A 10% overload is permissible for 1 hour every 12 hours.

Features	Benefits
I Tightly structure, excellent design and craft	I Beautiful appearance
I Designed with safety in mind	I Low operating cost results in optimal economy
I Earth leakage protection	I Ease of installation, operation, and maintenance
I Quick fix electrical power connections	I Customization
I Extensive option list	I Good quality ensure

Performance Specification and Craftwork

Performance Specification

Efficiency of Rated Power	96.3%
Time needed from start-up to full load (inductive)	125 seconds
Time needed from start-up to 50% load (inductive) allowed	8 seconds
1.1 times overload operation time (hour)	1
2.0 time overload operation time (minute)	1
Voltage Regulation, steady state	≤±1%
Voltage Regulation, transient state	20%-15%
Voltage Settle Time	≤5 seconds
Voltage Fluctuation Ratio	0.5%
Frequency Regulation, steady state	±0.5% adjustable
Frequency Regulation, transient state	±5%
Frequency Settle Time	5 seconds
Frequency Fluctuation Ratio	0.5%
Recovery Time	0.5 seconds

Telephone Interference, Electromagnetism

TIF	≤50
THF	≤2%

Radio interference in compliance with BS800 and VED LEVELS G and N.

Craftwork

- Steel base frame with AV mounting
- standard 8h fuel tank with flexible rubber fuel tube, fuel level indicator and drainage
- Overall sprayed powder coating
- Whole set documents, including Installation Manual, Operation Manual, Spare Parts Catalog, Circuit Diagram

Criterion

- ISO3046, ISO8528, BS4999, BS5514,
- BS5000PT99、AS1359, IEC34
- UTE5100, VDE0530
- ISO9001:2000

GMS1250C

Engine Specification			Alternator Specification	
Brand		**Cummins**	**Brand**	**Stamford**
Model		**KTA50-G3**	**Model**	**LVI634G**
No. of Cylinders and Cycle		16V, 4 Stroke	Rated Output (kVA)	1250
Induction System		TCA	Ratedcurrent (A)	1697.3-1853.7
Compression Ratio		13.9：1	Exciter	Brushless
Displacement (L)		50.0	THF（BS EN60034- 1）	<2%
Bore x Stroke (mm)		159 x 159	Bearing number	Single
Net weight (kg)		3723	Windings	100% Copper
Piston speed (m/s)		7.9	Connection Type	Star Connection
Intake Air Flow (L/s)		1140	Insulation Class	H
Exhaust gas temperature (℃)		529	Winding Pitch	2/3
Exhaust gas flow (L/s)		3051	Amortisseur Winding	Full
Base Output power (kW)		1097	A.V.R. Model	MX321
RPM		1500	Voltage Regulation (no load- full load)	± 0.5%
Brake mean effective pressure (kPA)		1868	Underspeed Protection	Standard
			Protection	IP23
Fuel Consumption (L/h)	110% load		Phase Sequence	A(U), B(V), C(W)
	100% load	254	TIF（NEMA MG 1-22）	<50
	75% load	195	Excitation System	Self-excited, PMG optional
	50% load	138	AmbientTemp. (℃)	50
Governor Type		E	Stator Rated Temp. (℃)	125

Cooling System		Fuel System	
Max. coolant friction head externalto engine (kPA)	55	Type injection System	Direct injection
Thermostat adjusting temperature (℃)	104/100	Fuel rail pressure (kPA)	22
Min. opening pressure of radiator cap (kPA)	69		
Coolant capacity-engine only (L)	161		
Exhaust System		**Lubricating System**	
Max. Back Pressure (kPA)	10.1	Total system capacity (L)	151
Electrical System		**Oil pressure**	
Starter (V)	24	Rated speed (kPA)	345-483
Battery charging system (A)	35		

GMS1250C

Control System

PLC-702

DSE-702 key manual start module is a manual engine control module designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine failure.

Standard Control Function

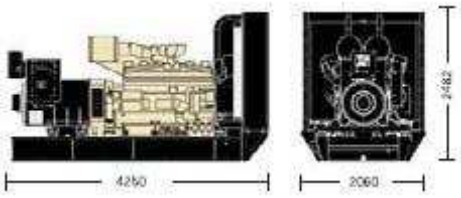
- Manual Engine Control Module
- Low Oil Pressure
- High Engine Temperature
- Auxiliary Shutdown
- Overspeed Protection
- Protection hold-off timer
- Charge Failure warning

PLC-5220

DSE-5220 control pannel is applied

- Microprocessor control, with high stability and credibility
- Mains supply and generator operation monitoring
- Indicating operation status and fault conditions
- Multiple protections; multiple parameters display, like pressure, temp.
- Manual and automatic work mode selectable
- Real time clock for time and date display, overall runtime display, 99 log entries
- Overall power output display
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed
- Communication with PC via RS485 OR RS232 interface, using MODBUS protocol.

Dimension and Weight



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Length × Width × Height, mm	Weight (kg):
4250×2060×2482	7711

Optional

Engine	Alternator	Generator Set	Fuel System	Canopy
● Coolant heater	● Space heater ● AVR PMG with regulator ● Anti-damp and anti-corrosion treatment ● Anti-condensation heater	● Tools with the machine	● Low fuel level alarm ● Automatic fuel feeding system	● Container
Lubricating System	**Exhaust System**	**Cooling System**	**Control Panel**	**Voltages**
● Oil with the machine	● Protection board from hotness ● Low frequency silencer	● Front heat protection ● 50℃ radiator ● Coolant (-30^{O}C)	● Remote control panel ● Automatic paralleling control panel ● Automatic Transfer Switch (ATS)	● 415/240V ● 400/230V ● 380/220V ● 220/127V ● 200-115V

Air Switch

Paralleling Control System

ATS

Container

Local Distributor