



Super Silent, Superior Life!

GMS125C6/S - Technical Data Sheet



STANDARD SPECIFICATION

General features:

- Composed of Cummins diesel engine and Stamford Leroy Somer alternator
- Engine Charge alternator 24 V
- Single bearing alternator IP 23 , insulation class H
- 40 °C radiator as standard, 45 °C is optional, water-cooled
- Skid and vibration isolators
- Dry type air filter, Main line circuit breaker
- Microprocessor control panel, Key start panel be optional
- 4 pole MCB, 24 V battery, rack and cable
- 8-hour operation base tank
- Special Integrated Steel Base tank and sprayed overall in gloss enamel pain
- Optional soundproof or weatherproof canopy, Industrial or residential silencer be optional



Model	Tank (L)	Noise Level Db(A)@7m	kVA		kW		Model	Bore/ stroke mm	Cyl.	Asp.	Gov.
			ESP	PRP	ESP	PRP					
GMS125C6	280	98	156	144	125	115	6BTAA5.9G2	102/120	6L	TCA	E
GMS125C6S	390	73.1									

- (1) Ambient reference conditions: 1,000 m bar, 27 °C , 30% relative humidity. Rating according to ISO 3046 and 8528.
- (2) Available in the following voltages: 480/277V-440/254V-416/240V-220/127V-208/120V.
- (3) ESP: Standby Power Standby duty, operation under variable load, without over load.
PRP: Prime Power-Continuous duty operation, under variable load 24/24h-10% over load permissible 1 hour/12 hours.
- (4) **M**: Mechanical speed governor, **E**: Electronic speed governor.
- (5) **NA**: Naturally aspirated, **TC**: Turbocharged, **TCA**: Turbocharged and air-air after-cooled. **TW**: Water-cooled Turbocharged.

Reliable Performance

Voltage Regulation

Voltage regulation maintained within ±0.5% as follow :

- Between 0.8 and 1.0 lagging and unity
- From no load to full load
- At speed droop variation up to 4.5%

Frequency Adjustable Ratio

- Change load from 0-100%, within 1.0% (electric speed regulator), within 4.5% (mechanical speed regulator)

Frequency Undulation

- Load from 0-100%, Frequency undulation within 0.25%
- No load wire volts max undulation ratio within 1.8%
- Three phrase balanced load in the order of 5%

Effect factor of telecom

- TIF better than 50
- THF to BS4999 Part 40 better than 2%

Electromagnetism

- In compliance with BS800 and VDE levels G and N

CRITERION

ISO3046, ISO8528, BS4999, BS5514,
BS5000PT99、 AS1359, IEC34
UTE5100, VDE0530
ISO9001:2000, ISO14001

ENGINE SPECIFICATION

Cummins Diesel Engine

Designed with Safety in Mind

Cummins water cooled diesel engine, oil and fuel filter fitted, water separator, Lube-oil drain valve fitted.

Cast Iron Skirted Block:

With main bearing supports between each cylinder, for maximum strength and rigidity, low weight, and optimum crankshaft support.

Compact Size:

For ease of installation and easy access for routine maintenance.

Direct Fuel Injection System:

With high swirl intake ports for thorough mixing of air and fuel to provide low fuel consumption.

Forged Steel, I-Beam Cross Section Connecting Rods:

With angle split cap-to-rod interface and cap screw attachment

For maximum structural strength and ease of service.

Filters:

Air cleaner with dry element and restriction indicator.
Spin full flow lube oil filter.

Cooling:

40 °c radiator as standard, Oil cooler, Drain tap.

Technical Data

Engine Model		6BTAA5.9G2
Engine Manufacturer /Brand		Cummins (China)
Type and Cylinder		6L, 4-cycle
Induction system		TC
Bore x Stroke	mm	102 x 120
Compress the ratio		17.5:1
Engine Speed	rpm	1800
Continuous Rated Output	kW	130
Oil Capacity	L	16
Coolant Capacity	L	10.4
Starting System		Electric - 24 volt DC
Displacement	L	5.9
Capacity	L	16
Battery Voltage /Capacity		24VDC/350A/400
Exhaust Gas Flow	m³/h	670
Exhaust Temperature	°c	410
Fuel Consumption		
100%	L/hr / gal/hor	24 / 6,34
75%	L/hr / gal/hor	17,9 / 4.73
50%	L/hr / gal/hor	12,2 / 3,22
Governing Type		E

AC ALTERNATOR

STAMFORD – LEROY SOMER GENERATOR

STAMFORD - LEROY SOMER has a long history of producing high-quality reliable products for the power generation market. Their portfolio of high quality generator ends is recognized as an industry standard.

Alternator Technical Data

Stamford - Leroy Somer AC alternator

- ◆ Brushless, self exciting
- ◆ Class 'H' insulation
- ◆ Standard degree of protection is IP23
- ◆ Self regulating
- ◆ With fan cooling
- ◆ Resist humid grease
- ◆ AC excitation, rotating rectification tube
- ◆ Stator grease insulation covered
- ◆ Rotator and excitation high polymer
- ◆ Resist the corruption of oil and acid.
- ◆ Rotator balance is in accordance with BS5625 standard 12.5
- ◆ High-quality lubrication sealed long-time bearing
- ◆ Rotator silicon steel close tight

Alternator Technical Data

Generator Model	LSA44.2VS45
Exciter	Brushless
Cooling Fan	Cast alloy aluminum
Bearing	Single, double shielded
Windings	100% copper
Connection Type	Re-connectable
Insulation Type	Class H
Pitch	2/3
Amortisseur Winding	Full
A.V.R. Model	R438
Voltage Regulation NL - FL	± 0.5%
Under-speed Protection	Standard
Over-excitation Protection	IP23
Standards	NEMA, IEC, IEEE, CSA, BS
Phase Sequence	A(U), B(V), C(W)
TIF (1960 Weightings)	<50
Excitation System	Self-exciting, PMG optional

★ In line with our policy of continuous product development, we reserve the right to make changes in model, technical specifications color, equipment and accessories without prior notice .

CONTROL SYSTEMS

PLC-1F CONTROL SYSTEM
--Controlled by Module GC-1F +B3

The Generator Controller GC-1F is a microprocessor- based control unit containing all necessary functions for protection and control of a diesel engine. Furthermore, it contains a three-phase AC voltage measuring circuit. The unit is equipped with an LCD display presenting all values and alarms. GC-1F is a compact all-in-one unit designed for the following applications:

1. Automatic engine start/stop
2. Engine protection
3. Breaker control
4. Generator protection
5. Automatic Mains Failure

Optional applications:
6. CANbus J1939 engine communication

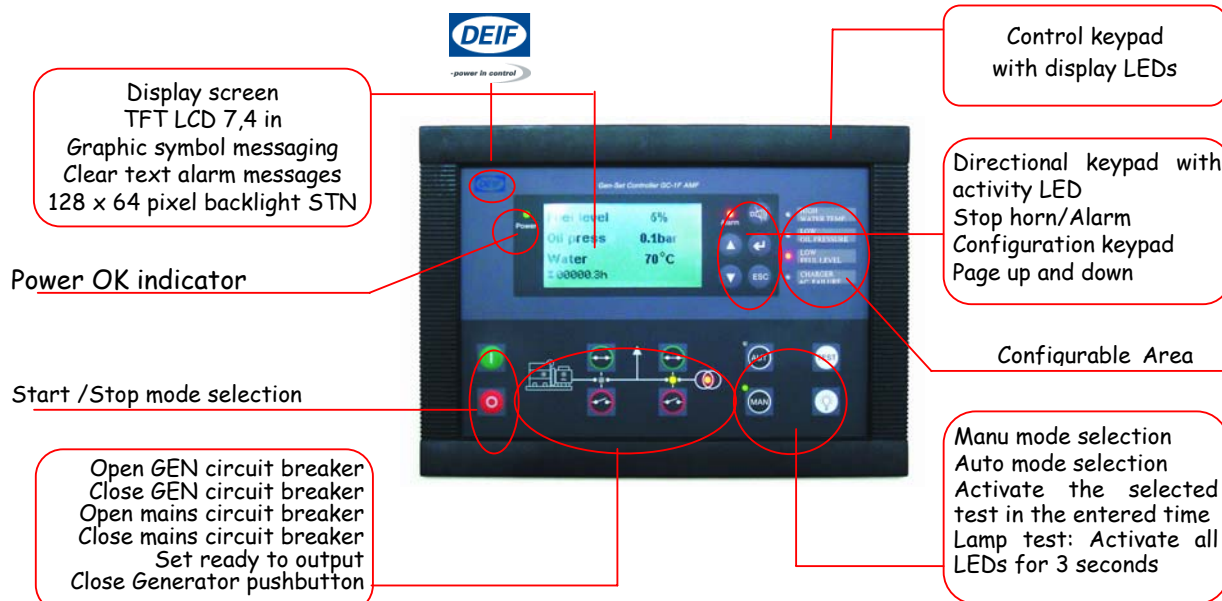


PLC-1F system- S & M Model



PLC-1F system- L & XL Model

Description For Module GC-1F +B3:



Standard functions	Shutdown	Warning
Engine Control Generator Monitoring Generator Protection Engine Monitoring Clear Text Display	Loss of Speed Signal Alternator Under / Over Voltage Alternator Under/ Over Frequency Mains Under / Over Voltage Mains Under/ Over Frequency Under / Over Speed Low Oil Pressure High Engine Temperature Phase Sequence Electrical (Option) Earth Fault (Option)	Alternator Under / Over Voltage Alternator Under/ Over Frequency Mains Under / Over Voltage Mains Under/ Over Frequency Under / Over Speed Low Oil Pressure Pre-Alarm High Engine Temperature Pre-Alarm High/Low Battery Voltage Over-current Periodic maintenance

PLC-702HC CONTROL SYSTEM

Standard Control Function

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

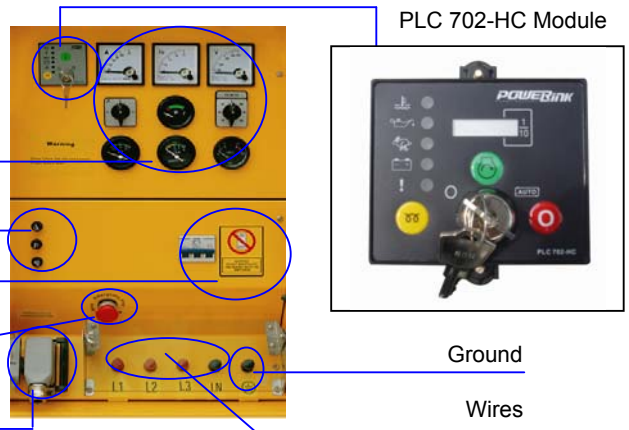
Meters for Hz, Speed, Temp., Voltage, Current

Fuse Protection

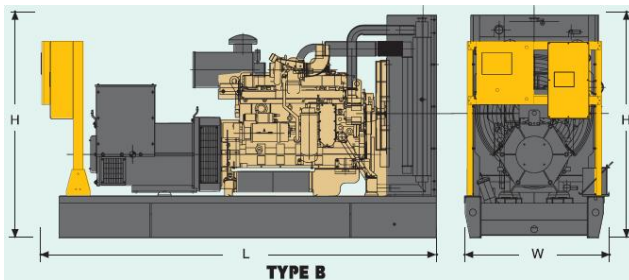
Circuit Breaker

Emergency Stop Button

Heavy Load Connector

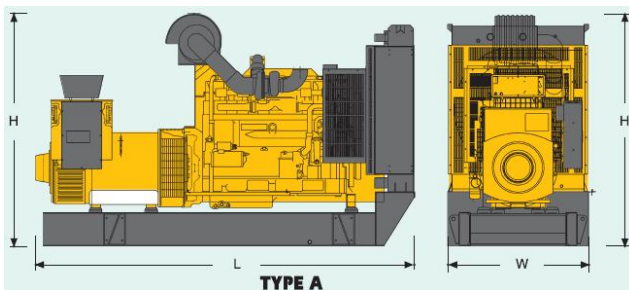


Weight and Dimensions



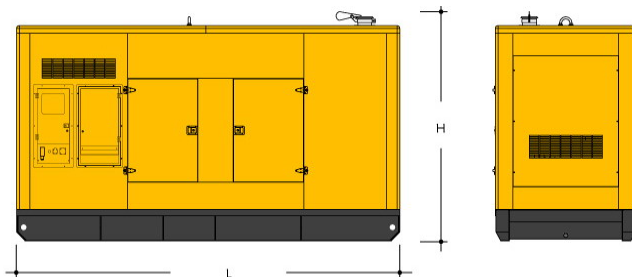
GMS125C6 (Open set)

Overall size (L*W*H), mm:
2.35 × 0.93 × 1.54
Weight (kg):1200



GMS125C6 (Open set)

Overall size (L*W*H), mm:
2.64 × 0.93 × 1.54
Weight (kg):1245



GMS125C6S (Soundproof set)

Overall size (L*W*H), mm
3.15 × 1.20 × 1.75
Weight (kg): 2016

*The weights are approximate.

OPTIONAL FEATURES

Fuel System Options

- Low fuel level shutdown
- Engine Oil Heater
- Manual Sump Oil Drain Pump

Exhaust Options

- Exhaust Silencer-industrial(9dB),In-Line
- Exhaust Silencer-Residential (25dB),In-line
- Flexible and fixing kit for industrial silencer
- Flexible and fixing kit for Residential silence

Control Panels

- Earth Fault Relay
- Remote Monitor Interface
- Protection for Alarm Module & Auxiliary Relay
- Parallel control panels

Switchgear

- Circuit Breaker MCCB & ACB
- Mains auto-charger
- Auto Transfer Switch

Canopy

- Mobile Sets /Trailer
- Weatherproof/Acoustic Enclosures

Voltage Connections

- 277/480V,3 Phase
- 254/440V,3 Phase
- 240/416V,3 Phase
- 230/400V,3 Phase
- 220/380V,3 Phase
- 127/220V,3 Phase
- 115/200V,3 Phase
- 110/190V,3 Phase

Miscellaneous Options

- Coolant heater-240/120V
- Battery Charger 110-277V,3A
- PCC2100 with barograph
- Earth Fault Relay
- Packing-Export Box



Air Switch



BGC Paralleling Control System



ATS



Trailer Set

If you have any question or inquiry, please contact sales organization

Local Distributor