

GMS130C/S

EC Series

Features:

- Rotate speed governor: Electrical governor S6700E
- Excitation system: Self excited
- A.V.R model: AS440
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 2x12V sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy (Only for Soundproofed sets)
- 50°C radiator
- Oil pump on the engine
- Steel base frame with fork holes
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for daily running
- Drain points for fuel tank
- Operation Manual / Specifications



Output Ratings

Generating Set Model	Prime Power	Standby Power
GMS130C	130kVA/104kW	145kVA/116kW
GMS130CS	130kVA/104kW	145kVA/116kW

Ratings at 0.8 power factor

Dimensions and Weights

Model	Length (L) mm	Width (W) mm	Height (H) mm	Dry Weight kg
GMS130C	2319	887	1540	1308
GMS130CS	3350	1150	1750	2126

Notes:

*Prime Power

Continuous duty operation, under variable load 24/24h-10% over load permissible 1 hour/12 hours;

**Standby Power

Standby duty, operation under variable load, without over load;

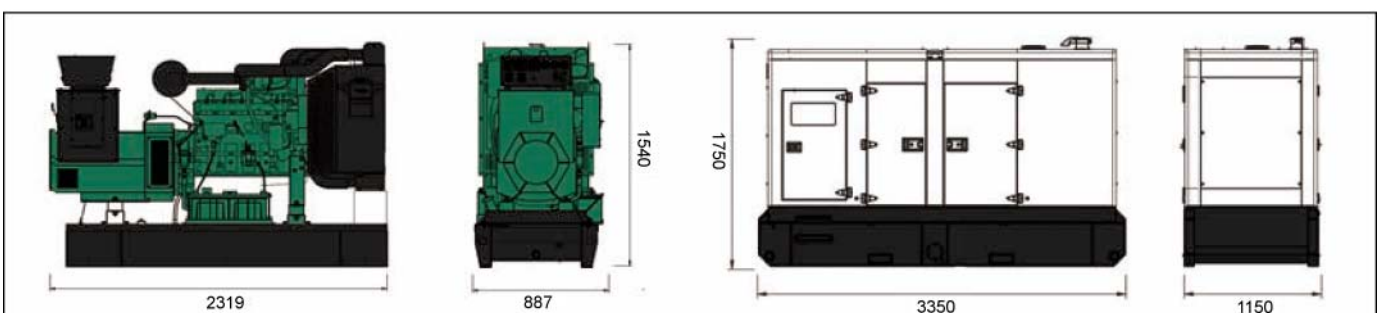
Standard Reference Conditions

Note: Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m(328 ft) A.S.L. 30% relative humidity.

Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.

Ratings and Performance Data

Engine Make & Model:	Cummins 6BTAA5.9-G2
Alternator Brand:	Stamford
Alternator Model:	UCI274E
Control System:	Auto Gen / AMF
Circuit Breaker Type:	3 Pole MCCB
Frequency & Phase:	50Hz & 3PH
Engine Speed: RPM	1500
Fuel Tank Capacity: L	
GMS130C	225
GMS130CS	300
Fuel Consumption: l/hr (100% Load)	
- Prime Power	30
- Standby Power	34



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Engine model:6BTAA5.9-G2

Engine Technical Data	
No. of Cylinders / Alignment:	6 / In Line
Cycle:	4 Stroke
Bore / Stroke: mm	102X120
Induction:	Turbocharged
Cooling Method:	Water
Governing Type:	Electrical
Governing Class:	ISO 8528 G2
Compression Ratio:	16.8:1
Displacement: L	5.9
Moment of Inertia:kg.m ²	0.25
Engine Electrical System:	
- Voltage / Ground	12/Negative
- Battery Charger	63
Weight: kg	
- Dry	411
- Wet	

Performance	
Engine Speed: RPM	1500
Gross Engine Power: kWm	
-Prime	120 (161)
- Standby	130 (174)
BMEP: kPa	
- Prime	
- Standby	

Lubrication System	
Oil Pressure @ Idle Speed kPa	207
@ Rated Speed kPa	345
Maximum Oil Temperature: °C	121
Total Oil Capacity: L	16.4
Oil Type:	API CH4 / 15W-40

Exhaust System	
Silencer Type	Industrial
Silencer Quantity:	1
Silencer Noise Reduction Level:	15-20dBA
Maximum Allowable Back Pressure: mmhg	76
Exhaust Gas Flow: l/s	
- Prime	293
- Standby	324
Exhaust Gas Temperature: °C	
- Prime	481
- Standby	495

Cooling System	
Cooling System Capacity: L	9.9
Maximum coolant Friction Head External to Engine: kPa	28
Maximum Static Head of Coolant Above Engine Crank Centerline : m	14
Standard Thermostat (Modulating) Range: °C	82-95
Minimum Pressure Cap: kPa	69
Maximum Top Tank Temperature for Standby / prime Power: °C	104/100

Designed to operate in ambient conditions up to 50°C (122°F). Contact your local PowerLink Dealer for power ratings at specific site conditions

Fuel System				
Injection System Type: PB pump_GAC governor/BYC ASIMCO				
Recommended Fuel Type: Diesel Fuel No.2-D(ASTMD975)				
Fuel Consumption: l/hr				
Prime	110% Load	100% Load	75% Load	50% Load
GMS130C	34	30	23	16
GMS130CS	34	30	23	16

(Based on diesel fuel with a specific gravity of 0.85 and conforming to BS2869,Class A2)

Air Systems	
Air Filter Type:	Dry type replaceable Element
Intake Air Flow: l/s	
- Prime	135
- Standby	145
Max. Air Intake Restriction: mmH ₂ O	
-With Dirty Filter Element	635
-With Normal Duty and Clean Filter Element	254
-With Heavy Duty and Clean Filter Element	381

The weights are approximate and without fuel.

Alternator model: UCI274E

Alternator Physical Data	
Manufactured by:	Stamford
Model:	UCI274E
No. of Bearings:	Single
Insulation Class:	H
Winding Pitch Code:	2/3
Wires:	12
Ingress Protection Rating:	IP23
Excitation System:	Self excited
AVR Model:	AS440

Alternator Operating Data	
Overspeed: rpm	2250rpm
Voltage Regulation: (Steady state)	±1.0%
Wave Form NEMA = TIF:	< 50
Wave Form IEC = THF:	< 2%
Air Flow: m ³ /s	0.514
Altitude: m	≤1000

Alternator Performance Data:	GMS130C	GMS130CS
Time constants/400V:Ms		
T'd	32	32
T''d	10	10
T'do	850	850
Ta	7	7
Short Circuit Capacity** %	1/Xd	1/Xd
Reactances: Per Unit		
Xd	2.11	2.11
X'd	0.19	0.19
X''d	0.13	0.13

Voltage Technical Data GMS130C				
Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW
380/220	125.0	100.0	145.0	116.0
400/230	125.0	100.0	145.0	116.0
415/240	125.0	100.0	145.0	116.0
440/254	N/A	N/A	N/A	N/A

Voltage Technical Data GMS130CS				
Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW
380/220	125.0	100.0	145.0	116.0
400/230	125.0	100.0	145.0	116.0
415/240	125.0	100.0	145.0	116.0
440/254	N/A	N/A	N/A	N/A

ControlSystem

PLC-7420

FEATURES

- Microprocessor control, with high stability and credibility .
- Mains supply and generator operation monitoring.
- Indicating operation status and fault conditions.
- Multiple protections; multiple parameters display, such as pressure, temperature.
- 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.
- Engine ECU is available.
- Common USB cable is usable for parameter configuration.
- Multi-language is available.



PLC-920 (Optional)

FEATURES

- Parameter configuration via RS-232 serial communication;
- Log last 50 events & alarm information with measured values;
- Statistics records;
- Remote start/stop;
- Speed sensing from alternator voltage or magnetic pickup;
- Configurable 3 inputs and 6 outputs;
- ECU powers, ECU stop, STOP or fuel solenoid selection;
- Automatic transfer switching control and engine control;
- Adjustable start, load and stop timers.



Diesel Generator Sets 6-2250 kVA			
	MODEL	PLC-7420	PLC-920
General Accessory	AIR	●	●
	Electronic Governing	×	×
	Slow plug control	●	●
	Cycle Cranking	●	●
	(MODBUS) Networking	●	×
Operate Interface	Fault History	●	●
	Manual start/stop	●	●
	Auto/remote start	●	●
	Regular Test	●	●
	Auto operation LED	●	●
	Manual operation LED	●	●
	Common Shutdown LED	●	●
	Common warning LED	●	●
	Fault to start LED	●	●
	Emergency stop/local	●	●
Measurement and Instrumentation	Alphanumeric screen	●	●
	Remote start input active LED	●	×
	Alarm reset	●	●
	Oil pressure	●	●
	Water Temperature	●	●
	Engine Speed	●	●
	Hours Run	●	●
	Number of Starts	●	●
	Battery Voltage	●	●
	Coolant Temperature	●	●
Shutdown Protection and Indication	3Phase-L Voltage&Frequency	●	●
	3phase Current	●	●
	Frequency	●	●
	kWh	●	●
	Apparent Power	●	●
	Active Power and Reactive Power	●	●
	Power Factor	●	●
	Per PhasekVA, kW	●	●
	Per Phase kVA	●	●
	Phase Voltage	●	●
Threshold Warning/Indication	Output Power	●	×
	Grid Line Voltage	●	×
	Grid Phase Voltage	●	×
	Grid Frequency	●	×
	Low Fuel Level	●	●
	High Fuel Level	○	×
	Low Oil Pressure	●	●
	High Water Temperature	●	●
	Failure to Stop	●	●
	Failure to Start	●	●
Paralleling Capability	Controllable start circles/times	●	×
	Overspeed	●	●
	Under&Over Voltage	●	●
	Under&Over Frequency	●	●
	Overcurrent	●	●
	Earth Leakage	○	○
	Reverse Power	×	×
	Reverse kWh	×	×
	Low Oil Pressure	●	●
	Low Water Temperature	○	○
Power Transfer Function	High Water Temperature	●	●
	Low Water Level	●	●
	Low/High Battery Voltage	●	●
	Failure to Charge	●	●
	Overcurrent	●	●
	Overload	●	●
	Genset Under/Over Voltage	●	●
	Genset Under/Over Frequency	●	●
	under/over Speed	●	●
	High Engine Temperature	●	●
Monitoring Function	Earth Leakage	○	○
	Synchronscope(Independent Bus)	×	×
	Active and Reactive Power Control	×	×
	Synchronscope(Shared Bus)	×	×
	Synchronization Detector	×	×
	Peak Logging	×	×
	Automatic Transfer	●	○
	Hard Closed Transition	●	○
	Soft Closed Transition	×	×
	Gen/Mains Breaker	●	×
Gen/Mains Breaker Status Protection	●	×	
Environment	Speed/Voltage Control	×	×
	Power Indication	●	×
	Fuel&Solenoid Valve Control	●	●
	Starter Control	●	●
	Preheating	○	○
	Mains Transfer Switch (Standard)	●	×
	Mains Transfer Switch (Emergency)	●	×
	Operating Temperature (-40℃-70℃)	●	●
	Ambient Temperature (-25℃-45℃)	●	●
	Humidity<=80%	●	●
Monitoring Function	Grid Over/Under Voltage Control	●	×
	Grid Over/Under Frequency Control	●	×
	Remote Start Output(Load/No-load)	●	●
	Optional Relay Output	●	●
	Remote Telecom Control with All Functions	●	×
	Engine Instrument Monitoring	●	●
	Alternator Output Instrument Monitoring	●	●
	Connection Point with All-around Setting For 6 Users	●	●
	3 Users Input Connection Point	●	●
	LCD Light Control of Low Light Operation Environment	●	●
Monitoring Function	Safe PIN Code	●	●
	RS232/485 Interface	●	×
	Language Selection	●	●
	Multi-Language Function	●	●

● Standard ○ Optional × Impossible

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Optional

Engine	Alternator	Generator Set	Fuel System	Canopy
<ul style="list-style-type: none"> Water Jacket Preheater Oil Preheater 	<ul style="list-style-type: none"> Winding Temperature Measuring Instrument Alternator Preheater PMG Anti-damp and anti-corrosion treatment Anti-condensation heater 	<ul style="list-style-type: none"> Tools with the machine 	<ul style="list-style-type: none"> Low fuel level alarm Automatic fuel feedingsystem Fuel T-valves 	<ul style="list-style-type: none"> Trailer

Lubricating System	Exhaust System	Cooling System	Control System	Voltages
<ul style="list-style-type: none"> Oil with the machine 	<ul style="list-style-type: none"> Protection board from hotness 	<ul style="list-style-type: none"> Front heat protection Coolant (-30°C) 	<ul style="list-style-type: none"> Remote control panel PLC-920 ATS 	<ul style="list-style-type: none"> 415/240V 400/230V 380/220 220/127V 200-115V

The following lists are optional by the needs of customers.

6B Series 1000 Hour Maintaining List				
No.	Part Name	Part No.	Qty	Remark
1	CARTRIDGE,LUB	1012N-010(3937743)	5	
2	FILTER,FUEL	C3931063	5	
3	WATER FUEL SEPERATOR	C3930942	5	
4	CLEANER,AIR	6BT-6BTA(KW1833)	3	
5	CLEANER,AIR	6BTAA(KW2140)	3	
6	BELT,V RIBBED	3288790	2	
7	FRON OIL SEAL	C4991305	1	
8	REAR OIL SEAL	C4982415	1	
9	BEARING,CRANKSHAFT THRUS	A3906230	1	
10	BEARING,MAIN, UPPER	C3929016	6	
11	BEARING,MAIN, BOTTOM	C3929021	7	
12	BEARING,CONNECTING ROD	A3901170	12	
13	AIR RING, PISTON	C3918315	6	
14	MID RING, PISTON	C3904531	6	
15	OIL RING, PISTON	C3932520	6	
16	GASKET,VALVE COVER	A3902666	12	
17	SOLENOID, FUEL PUMP	C4942879	1	
18	NOZZLE TIP	P277	6	

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If you have any question or inquiry, please contact PowerLink sales organization. Or contact by: info@powerlinkworld.com

*Specification may change without prior notice.
For more info, please contact PowerLink or your local distributors.*

EC Series / 2013 1st Edition

Local Distributor
