

GMS375C/S

EC Series

Features:

- Rotate speed governor: Electrical governor FP801
- Excitation system: SHUNT
- 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
GMS375C	375kVA/300kW	390kVA/312kW
GMS375CS	375kVA/300kW	390kVA/312kW

Ratings at 0.8 power factor

Dimensions and Weights

Model	Length (L) mm	Width (W) mm	Height (H) mm	Dry Weight kg
GMS375C	3233	1278	1840	3121
GMS375CS	4450	1500	2200	4749

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;

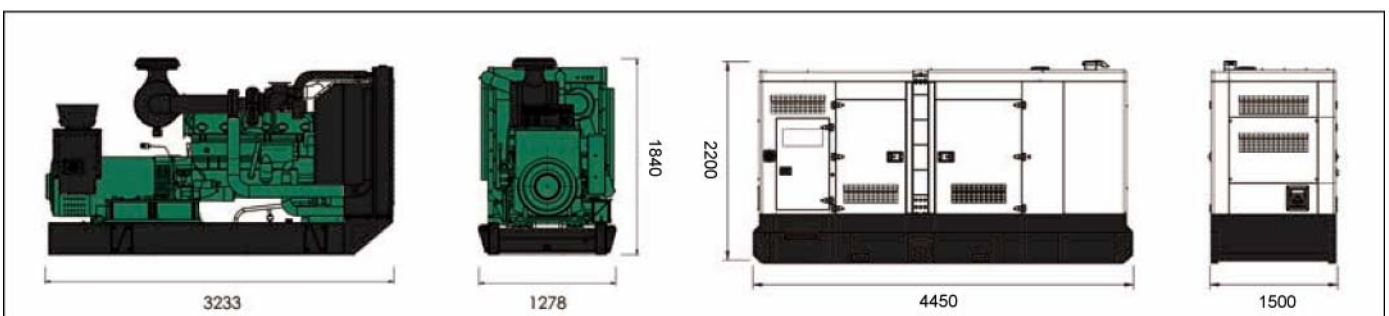
Standard Reference Conditions

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 NTAA855-G7
Alternator Brand:	Stamford
Alternator Model:	HCI444FS
Control System:	Auto Gen / AMF
Circuit Breaker Type:	3 Pole MCCB
Frequency & Phase:	50Hz & 3PH
Engine Speed: RPM	1500
Fuel Tank Capacity: L	
GMS375C	390
GMS375CS	800
Fuel Consumption: L (100% Load)	
- Prime Power	85.4
- Standby Power	94.0



Engine model:NTAA855-G7

Engine Technical Data	
No. of Cylinders / Alignment:	6/ In Line
Cycle:	4 Stroke
Bore / Stroke: mm	140 (5.5)/152 (6.0)
Induction:	Turbocharged
Cooling Method:	Water
Governing Type:	Electrical
Governing Class:	ISO 8528 G2
Compression Ratio:	14.0:1
Displacement: L	14 (855)
Moment of Inertia:kg.m ²	4.99 (188.5)
Engine Electrical System:	
- Voltage / Ground	24/Negative
- Battery Charger	35
Weight: kg	
- Dry	1270 (2800)
- Wet	1320 (2910)

Cooling System	
Cooling System Capacity: L	20.8
Maximum coolant Friction Head External to Engine: kPa	41
Maximum Static Head of Coolant Above Engine Crank Centerline : m	14.0
Standard Thermostat (Modulating) Range: °C	82-94
Minimum Pressure Cap: kPa	48.2
Maximum Top Tank Temperature for Standby / prime Power: °C	104/110

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

Performance	
Engine Speed: RPM	1500
Gross Engine Power: kWm	
-Prime	343(460)
- Standby	377 (505)
BMEP: kPa	
- Prime	1960 (284)
- Standby	2154 (312)

Fuel System					
Injection System Type: Direct Injection Cummins PT					
Recommended Fuel Type: Diesel Fuel No.2-D(ASTMD975)					
Fuel Consumption: l/hr					
Prime	110% Load	100% Load	75% Load	50% Load	
GMS375C	94.0	85.4	64.7	44.6	
GMS375CS	94.0	85.4	64.7	44.6	

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

Lubrication System	
Oil Pressure @ Idle Speed kPa	103
@ Rated Speed kPa	241-345
Maximum Oil Temperature: °C	121
Total Oil Capacity: L	38.6(10.2)
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	3.0(10)
Exhaust Gas Flow: l/s	
- Prime	1090 (2313)
- Standby	1150 (2432)
Exhaust Gas Temperature: °C (°F)	
- Prime	451 (845)
- Standby	497 (926)

Air Systems	
Air Filter Type:	Dry type replaceable Element
Intake Air Flow: l/s	
- Prime	485
- Standby	510
Max. Air Intake Restriction:mmH ₂ O	
-With Dirty Filter Element	25
-With Normal Duty and Clean Filter Element	15
-With Heavy Duty and Clean Filter Element	25

The weights are approximate and without fuel.

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Alternator model: HCI444FS

Alternator Physical Data	
Manufactured by:	Stamford
Model:	HCI444FS
No. of Bearings:	Single
Insulation Class:	H
Winding Pitch Code:	2/3
Wires:	12
Ingress Protection Rating:	IP23
Excitation System:	SHUNT
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	0.8
Altitude: m	≤1000

Alternator Performance Data:	GMS375C	GMS375CS
Time constants/400V:Ms		
T'd	80	80
T''d	19	19
T'do	1700	1700
Ta	18	18
Short Circuit Capacity** %	1/Xd	1/Xd
Reactances: Per Unit		
Xd	2.45	2.45
X'd	0.16	0.16
X''d	0.12	0.12

Voltage Technical Data GMS375C				
Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW
380/220	370	296	415	332
400/230	370	296	430	344
415/240	370	296	430	344
440/254	370	296	430	344

Voltage Technical Data GMS375CS				
Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW
380/220	370	296	415	332
400/230	370	296	430	344
415/240	370	296	430	344
440/254	370	296	430	344

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		PLC-7420	PLC-920
General accessory	MODEL	●	●
	AVR	●	●
	Electronic Governing	×	×
	Glow plug control	●	●
	Cycle Cranking	●	●
	(MODBUS) Networking	●	×
	Fault History	●	●
	Manual start/stop	●	●
	Auto/remote start	●	●
	Regular Test	●	●
Operator Interface	Auto operation LED	●	●
	Manual operation LED	●	●
	Common Shutdown LED	●	●
	Common warning LED	●	●
	Fail to start LED	●	●
	Emergency stop(lock)	●	●
	Alphanumeric screen	●	●
	Remote start input active LED	●	×
	Alarm reset	●	●
	●	●	●
Measurement and Instrumentation	Engine	●	●
	Oil pressure	●	●
	Water Temperature	●	●
	Engine Speed	●	●
	Hours Run	●	●
	Number of Starts	●	●
	Battery Voltage	●	●
	Coolant Temperature	●	●
	3Phase-L Voltage&Frequency	●	●
	3phase Current	●	●
	Frequency	●	●
	kWh	●	●
	Alternator	●	●
	Apparent Power	●	●
	Active Power and Reactive Power	●	●
	Power Factor	●	●
	Per PhasekW, kVAr	●	●
	Per Phase kVA	●	●
	Phase Voltage	●	●
	Output Power	●	×
Grid Line Voltage	●	×	
Grid Phase Voltage	●	×	
Grid Frequency	●	×	
Shutdown Protection and Indication	Engine	●	●
	Low Fuel Level	●	●
	High Fuel Level	○	×
	Low Oil Pressure	●	●
	High Water Temperature	●	●
	Failure to Stop	●	●
	Failure to Start	●	●
	Controlable start circles/times	●	×
	Overspeed	●	●
	Under/Over Voltage	●	●
Alternator	●	●	
Under/Over Frequency	●	●	
Overcurrent	●	●	
Earth Leakage	○	○	
Reverse Power	×	×	
Reverse kWh	×	×	
Threshold Warning&Indication	Low Oil Pressure	●	●
	Low Water Temperature	○	○
	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	●	●	
Earth Leakage	●	○	
Paralleling Capability	Synchrscope(Independent Bus)	×	×
	Active and Reactive Power Control	×	×
	Synchrscope(Shared Bus)	×	×
	Synchronization Detector	×	×
	Peak Lapping	×	×
Power Transfer Function	Automatic Transfer	●	○
	Hard Closed Transition	●	●
	Soft Closed Transition	×	×
	Gen/Mains Breaker	●	×
	Gen/Mains Breaker Status Protection	●	×
	Speed/Voltage Control	×	×
	Power Indication	●	×
	Fuel&Solenoid Valve Control	●	●
	Starter Control	●	●
	Preheating	○	○
Mains Transfer Switch (Standard)	●	×	
Mains Transfer Switch (Emergency)	●	×	
Environment	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	●	●
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.

Minor Repair / 1000 hrs optional				
No.	Part Name	Part No.	Qty	Remark
1	CARTRIDGE,LUB	3401544=LF9009	4	
2	FILTER,FUEL	3315843=FS1212	8	
3	CORROSION RESISTOR	4058965=WF2076	4	
4	CLEANER, AIR	3022209	4	
5	BELT,V, FAN	3040386	1	
6	BELT,V RIBBED	217638	1	
7	BELT,V, MULTI-SLOT	3040303	1	
8	TURBOCHARGER ,KIT	3801523	1	IMPORT
9	SET,MAIN BEARING	3801260	1	
10	BEARING,CONNECTING	214950	6	
11	NOZZLE,PISTION COOLING	3013591	6	
12	THERMOSTAT	3076489	1	
13	OIL PRESSURE SENSOR	3015237	1	
14	WATER TEMP SENSOR	3015238	1	IMPORT
15	SPEED SENSOR	3034572	1	
16	SWITCH,MAGNETIC	3050692	1	
17	SET,UPPER ENGINE GSK	4024919	1	IMPORT
18	SET,LOWER ENGINE GSK	3801235	1	IMPORT

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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.*

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Local Distributor
