

GMS350C/S

EC Series



MULTIPHASE POWER

Features:

- Rotate speed governor: Electircal governor FP801
- Excitation system: Self excited, 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
GMS350C	350kVA/280kW	370kVA/296kW
GMS350CS	350kVA/280kW	370kVA/296kW

Ratings at 0.8 power factor

Dimensions and Weights

Model	Length (L) mm	Width (W) mm	Height (H) mm	Dry Weight kg
GMS350C	3031	1278	1830	3040
GMS350CS	4450	1500	2200	4940

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;

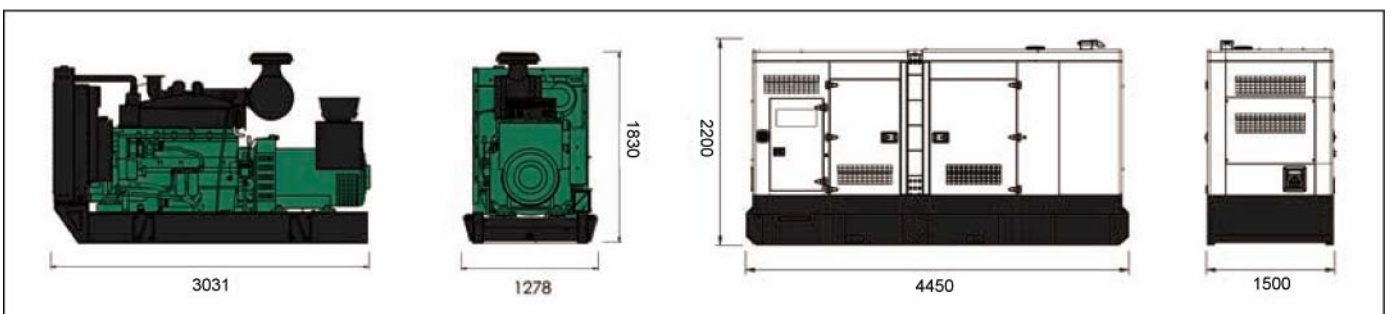
Standard Reference Conditions

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 NTA855-G4
Alternator Brand:	Stamford
Alternator Model:	HCI444E
Control System:	Auto Gen / AMF
Circuit Breaker Type:	3 Pole MCCB
Frequency & Phase:	50Hz & 3PH
Engine Speed: RPM	1500
Fuel Tank Capacity: L	
GMS350C	410
GMS350CS	800
Fuel Consumption: L (100% Load)	
- Prime Power	75.3
- Standby Power	83.1





Engine model:NTA855-G4

Engine Technical Data		
No. of Cylinders / Alignment:	4 / In Line	
Cycle:	6 Stroke	
Bore / Stroke: mm	140 (5.5)/152 (6.0)	
Induction:	Turbocharged	
Cooling Method:	Water	
Governing Type:	Mechanical	
Governing Class:	ISO 8528 G2	
Compression Ratio:	14.0:1	
Displacement: L	14 (855)	
Moment of Inertia:kg.m ²	4.99 (118.5)	
Engine Electrical System:		
- Voltage / Ground	24egative	
- Battery Charger	35	
Weight: kg	- Dry	1410 (3095)
	- Wet	1510 (3320)

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	104/100

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

Performance	
Engine Speed: RPM	1500
Gross Engine Power: kWm	
-Prime	317 (420)
- Standby	351 (470)
BMEP: kPa	
- Prime	1811 (262)
- Standby	2006 (291)

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	
GMS350C	83.1	75.3	57.5	39.9	
GMS350CS	83.1	75.3	57.5	39.9	

(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	1128 (2390)
- Standby	1225(2595)
Exhaust Gas Temperature: °C	
- Prime	524 (975)
- Standby	541 (1005)

Air Systems	
Air Filter Type:	Dry type replaceable Element
Intake Air Flow: l/s	
- Prime	408
- Standby	434
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.



Alternator model: LSA42.3M7

Alternator Physical Data	
Manufactured by:	Stamford
Model:	HCI444E
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	0.1
Altitude: m	≤1000

Alternator Performance Data:	GMS350C	GMS350CS
Time constants/400V:Ms		
T'd	50	50
T''d	5	5
T'do	882	882
Ta	7.5	7.5
Short Circuit Capacity** %	300% (3 IN): 10s	300% (3 IN): 10s
Reactances: Per Unit		
Xd	286	286
X'd	16.2	16.2
X''d	8.1	8.1

Voltage Technical Data GMS350C				
Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW
380/220	320	256	370	296
400/230	320	256	370	296
415/240	320	256	370	296
440/254	320	256	370	296

Voltage Technical Data GMS350CS				
Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW
380/220	320	256	370	296
400/230	320	256	370	296
415/240	320	256	370	296
440/254	320	256	370	296

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	●	●	
	Alternator	Battery Voltage	●	●	
		Coolant Temperature	●	●	
		3Phase-L Voltage&Frequency	●	●	
		3phase Current	●	●	
		Frequency	●	●	
		kWh	●	●	
		Apparent Power	●	●	
		Active Power and Reactive Power	●	●	
		Power Factor	●	●	
		Per PhasekW, kVAr	●	●	
		Per Phase kVA	●	●	
		Phase Voltage	●	●	
		Output Power	●	×	
		Mains Expression	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	●	●	
	Alternator	Failure to Start	●	●	
		Controllable start circles/times	●	×	
		Overspeed	●	●	
		Under&Over Voltage	●	●	
		Under&Over Frequency	●	●	
Threshold Warning&Indication	Alternator	Overcurrent	●	●	
		Earth Leakage	○	○	
		Reverse Power	×	×	
		Reverse kWh	×	×	
		●	●	●	
	Engine	Low Oil Pressure	●	●	
		Low Water Temperature	○	○	
		High Water Temperature	●	●	
		Low Water Level	●	●	
		Low/High Battery Voltage	●	●	
Paralleling Capability	Alternator	Failure to Charge	●	●	
		Overcurrent	●	●	
		Overload	●	●	
		Genset Under/Over Voltage	●	●	
		Genset Under/Over Frequency	●	●	
	Engine	under/over Speed	●	●	
		High Engine Temperature	●	●	
		Earth Leakage	●	○	
		●	×	×	
		●	×	×	
Power Transfer Function	Alternator	Synchrscope(Independent Bus)	×	×	
		Active and Reactive Power Control	×	×	
		Synchrscope(Shared Bus)	×	×	
		Synchronization Detector	×	×	
		Peak Lapping	×	×	
	Engine	Automatic Transfer	●	○	
		Hard Closed Transition	●	●	
		Soft Closed Transition	×	×	
		Gen/Mains Breaker	●	×	
		Gen/Mains Breaker Status Protection	●	×	
Environment	Alternator	Speed/Voltage Control	×	×	
		Power Indication	●	×	
		Fuel&Solenoid Valve Control	●	●	
		Starter Control	●	●	
		Preheating	○	○	
	Engine	Mains Transfer Switch (Standard)	●	×	
		Mains Transfer Switch (Emergency)	●	×	
		Operating Temperature (-40℃-70℃)	●	●	
		Ambient Temperature (-25℃-45℃)	●	●	
		Humidity<= 80%	●	●	
Monitoring Function	Alternator	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	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	●	●	
Miscellaneous	Safe PIN Code	●	●		
	RS232/485 Interface	●	×		
	Language Selection	●	●		
	Multi-Language Function	●	●		
	●	●	●		

● Standard ○ Optional × Impossible

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	178708	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



**MULTIPHASE
POWER**



**SPECIAL OFFER
SALE
GENERATOR SETS**

**5-2000kVA
สินค้าพร้อมจัดส่ง**

จำหน่ายและให้เช่า

Diesel Generator

50/60Hz



**MULTIPHASE
POWER**



AUTOMATIC SYNCHRONIZATION SYSTEM & AUTOMATIC TRANSFER SYSTEM

เครื่องปรับเปลี่ยนระบบจ่ายไฟให้ใช้ปรกติ เป็นระบบจ่ายไฟภายใน ในกรณีไฟจากการไฟฟ้าดับ โดยมีระบบควบคุมการรับรู้ และสั่งการสับเข้าออกถึง 2 แหล่งจ่าย



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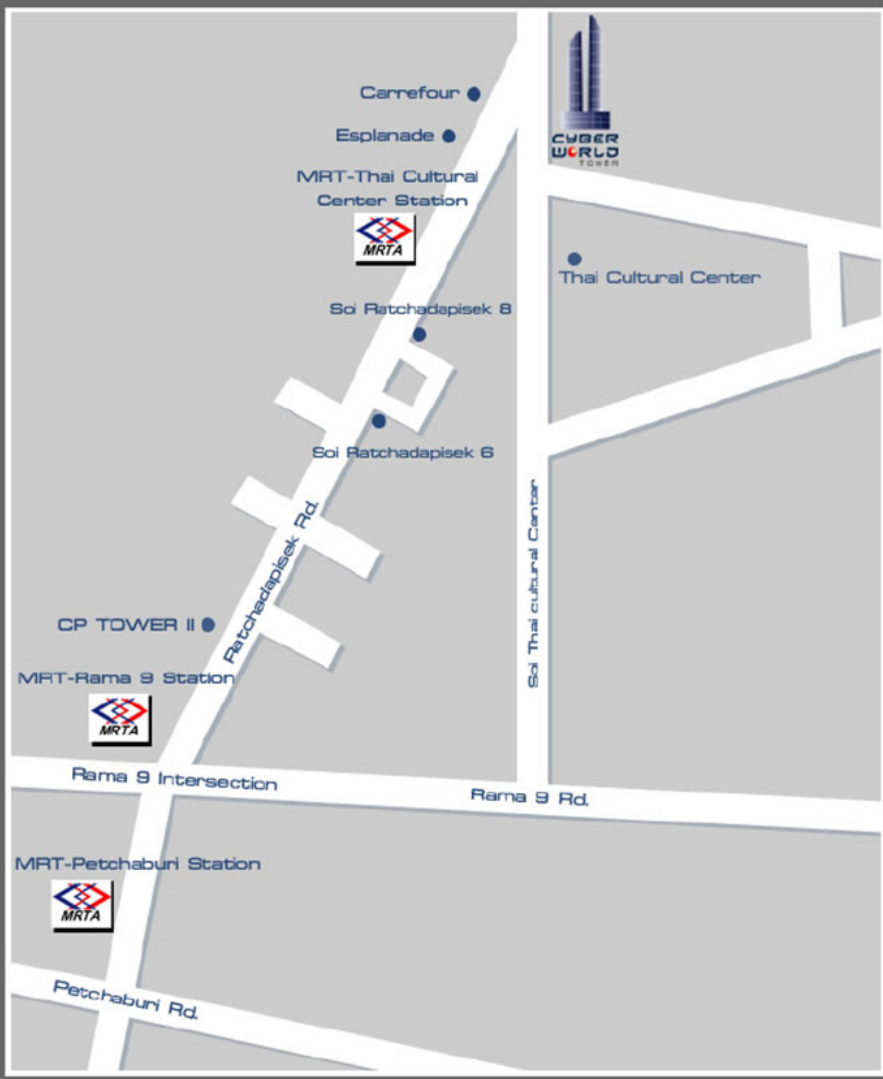


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อาคาร ชีตมเบิลยู ทาวเวอร์ ห้องเลขที่ เอ 2102 ชั้นที่ 21
เลขที่ 90 ถนนรัชดาภิเษก แขวงห้วยขวาง เขตห้วยขวาง
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GMS350C/S

EC Series



MULTIPHASE POWER

Features:

- Rotate speed governor: Electrical governor FP801
- 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
GMS350C	350kVA/280kW	370kVA/296kW
GMS350CS	350kVA/280kW	370kVA/296kW

Ratings at 0.8 power factor

Dimensions and Weights

Model	Length (L) mm	Width (W) mm	Height (H) mm	Dry Weight kg
GMS350C	3031	1278	1830	3040
GMS350CS	4450	1500	2200	4588

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;

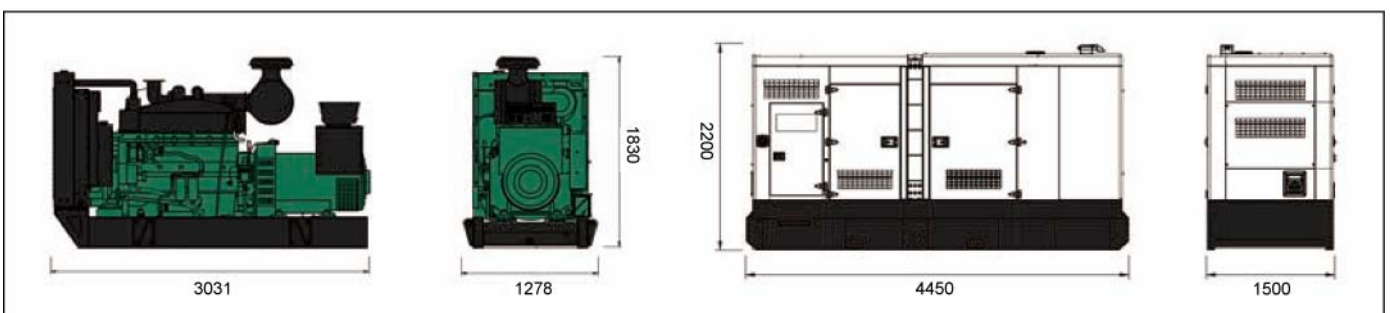
Standard Reference Conditions

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 NTA855-G2A
Alternator Brand:	Stamford
Alternator Model:	HCI444E
Control System:	Auto Gen / AMF
Circuit Breaker Type:	3 Pole MCCB
Frequency & Phase:	50Hz & 3PH
Engine Speed: RPM	1500
Fuel Tank Capacity: L	
GMS350C	410
GMS350CS	800
Fuel Consumption: l/hr (100% Load)	
- Prime Power	19.0
- Standby Power	21





Engine model:NTA855-G2A

Engine Technical Data	
No. of Cylinders / Alignment:	6 / In Line
Cycle:	6 Stroke
Bore / Stroke: mm	140 (5.5)/152 (6)
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 (118.5)
Engine Electrical System:	
- Voltage / Ground	24/Negative
- Battery Charger	35
Weight: kg	
- Dry	1300 (2870)
- Wet	1410 (3095)

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	104/100

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

Performance	
Engine Speed: RPM	1500
Gross Engine Power: kWm	
-Prime	310 (415)
- Standby	343 (460)
BMEP: kPa	
- Prime	1771(257)
- Standby	1960 (284)

Fuel System				
Injection System Type: Direct Injection Cummins PT				
Recommended Fuel Type: Diesel Fuel No.2-D(ASTM D975)				
Fuel Consumption: l/hr				
Prime	110% Load	100% Load	75% Load	50% Load
GMS350C	21.0	19.0		
GMS350CS	21.0	19.0		

(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	986(2090)
- Standby	1095 (2320)
Exhaust Gas Temperature: °C	
- Prime	553 (1027)
- Standby	558 (1036)

Air Systems	
Air Filter Type:	Dry type replaceable Element
Intake Air Flow: l/s	
- Prime	375
- Standby	401
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.



Alternator model: HCI444E

Alternator Physical Data	
Manufactured by:	Stamford
Model:	HCI444E
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	0.8
Altitude: m	≤1000

Alternator Performance Data:	GMS350C	GMS350CS
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	2.71	2.71
Xd		
X'd	0.18	0.18
X''d	0.13	0.13

Voltage Technical Data GMS350C				
Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW
380/220	320	256	370	296
400/230	320	256	370	296
415/240	320	256	370	296
440/254	320	256	370	296

Voltage Technical Data GMS350CS				
Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW
380/220	320	256	370	296
400/230	320	256	370	296
415/240	320	256	370	296
440/254	320	256	370	296

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	●	●		
	Alarm reset	●	●		
Measurement and Instrumentation	Engine	Oil pressure	●	●	
		Water Temperature	●	●	
		Engine Speed	●	●	
		Hours Run	●	●	
		Number of Starts	●	●	
	Alternator	Battery Voltage	●	●	
		Coolant Temperature	●	●	
		3Phase-L Voltage&Frequency	●	●	
		3phase Current	●	●	
		Frequency	●	●	
		kWh	●	●	
		Apparent Power	●	●	
		Active Power and Reactive Power	●	●	
		Power Factor	●	●	
		Per PhasekW, kVAr	●	●	
		Per Phase kVA	●	●	
		Phase Voltage	●	●	
		Output Power	●	×	
		Mains Expression	Grid Line Voltage	●	×
			Grid Phase Voltage	●	×
Grid Frequency	●		×		
Low Fuel Level	●		●		
High Fuel Level	○		×		
Shutdown Protection and Indication	Engine	Low Oil Pressure	●	●	
		High Water Temperature	●	●	
		Failure to Stop	●	●	
		Failure to Start	●	●	
		Controlable start circles/times	●	×	
	Alternator	Overspeed	●	●	
		Under&Over Voltage	●	●	
		Under&Over Frequency	●	●	
		Overcurrent	●	●	
		Earth Leakage	○	○	
Threshold Warning&Indication	Reverse Power	×	×		
	Reverse kWh	×	×		
	Low Oil Pressure	●	●		
	Low Water Temperature	○	○		
	High Water Temperature	●	●		
	Low Water Level	●	●		
	Low/High Battery Voltage	●	●		
	Failure to Charge	●	●		
	Overcurrent	●	●		
	Overload	●	●		
Paralleling Capability	Genset Under/Over Voltage	●	●		
	Genset Under/Over Frequency	●	●		
	under/over Speed	●	●		
	High Engine Temperature	●	●		
	Earth Leakage	●	○		
	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	○	○		
Environment	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	●	●		
Safe PIN Code	●	●			
RS232/485 Interface	●	×			
Language Selection	●	●			
Multi-Language Function	●	●			

● Standard ○ Optional × Impossible

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	178708	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	4024945	1	IMPORT
18	SET,LOWER ENGINE GSK	3801235	1	IMPORT



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