

EC Series

GMS350C

— **Generator Set Specification**



Your Partner for Power...

GMS350C



3-Phase, 50Hz@1500RPM

	Voltage	kW	kVA	Amps
Prime Power	380	280	350	531.8
	400	280	350	505.2
	415	280	350	486.9
	440	280	350	459.3
Standby Power	380	311.1	388.9	590.9
	400	311.1	388.9	561.3
	415	311.1	388.9	541.0
	440	311.1	388.9	510.3
Noise Level at 7 meters (dBA)			97.2	

Notes:

- 1) Ambient reference conditions: 1,000 mbar, 27°C, 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
<ul style="list-style-type: none"> Tightly structure, excellent design and craft Designed with safety in mind Earth leakage protection Quick fix electrical power connections Extensive option list 	<ul style="list-style-type: none"> Beautiful appearance Low operating cost results in optimal economy Ease of installation, operation, and maintenance Customization Good quality ensure

Performance Specification and Craftwork			
Performance Specification		Telephone Interference, Electromagnetism	
Efficiency of Rated Power	96.3%	TIF	≤50
Time needed from start-up to full load (inductive)	125 seconds	THF	≤2%
Time needed from start-up to 50% load (inductive) allowed	8 seconds	Radio interference in compliance with BS800 and VED LEVELS G and N.	
1.1 times overload operation time (hour)	1	Craftwork	
2.0 time overload operation time (minute)	1	<ul style="list-style-type: none"> ● 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 	
Voltage Regulation, steady state	≤±1%	Criterion	
Voltage Regulation, transient state	20%-15%	<ul style="list-style-type: none"> ● ISO3046, ISO8528, BS4999, BS5514, ● BS5000PT99、AS1359, IEC34 ● UTE5100, VDE0530 ● ISO9001:2000 	
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		

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Engine Specification		Alternator Specification	
Brand	Cummins	Brand	Stamford
Model	NTA855G2A	Model	HCI444E
No. of Cylinders and Cycle	6L, 4 Stroke	Rated Output (kVA)	350
Induction System	TCA	Rated current (A)	505.2
Compression Ratio	14: 1	Exciter	Brushless
Displacement (L)	14	THF (BS EN60034- 1)	<2%
Bore x Stroke (mm)	140 x 152	Bearing number	Single
Net weight (kg)	1410	Windings	100% Copper
Torque (N.m)	1974	Connection Type	Star Connection
Piston speed (m/s)	7.62	Insulation Class	H
Intake Air Flow (L/s)	375	Winding Pitch	2/3
Exhaust gas temperature (°C)	553	Amortisseur Winding	Full
Exhaust gas flow (L/s)	986	A.V.R. Model	AS440
Base Output power (kW)	310	Voltage Regulation (no load- full load)	± 1.0%
RPM	1500	Underspeed Protection	Standard
Brake mean effective pressure (kPA)	1771	Protection	IP23
Fuel Consumption (L/h)	110% load	Phase Sequence	A(U), B(V), C(W)
	100% load	TIF (NEMA MG 1-22)	<50
	75% load	Excitation System	Self-excited, PMG optional
	50% load	Ambient Temp. (°C)	40
Governor Type	E	Stator Rated Temp. (°C)	125

Cooling System		Fuel System	
Max. coolant friction head external to engine (kPA)	41	Type injection System	Direct injection
Thermostat adjusting temperature (°C)	96	Max. fuel pump supply (L/h)	314
Min. opening pressure of radiator cap (kPA)	48.2	Fuel rail pressure (kPA)	1407
Coolant capacity-engine only (L)	20.8	Max. fuel temperature (°C)	71
Exhaust System		Lubricating System	
Max. Back Pressure (kPA)	10.1	Total system capacity (L)	38.6
Electrical System		Oil pressure	
Starter (V)	24	Low idle (kPA)	103
Battery charging system (A)	35	Rated speed (kPA)	241-345

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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

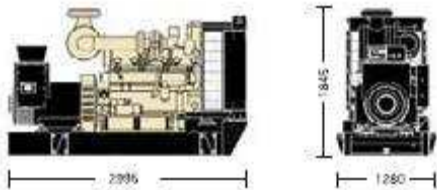
PLC-5220

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
2995×1280×1845

Weight (kg):
5502

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Optional

Engine	Alternator	Generator Set	Fuel System	Canopy
<ul style="list-style-type: none"> ● Coolant heater 	<ul style="list-style-type: none"> ● Space heater ● AVR PMG with regulator ● 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 feeding system 	<ul style="list-style-type: none"> ● Canopy
Lubricating System	Exhaust System	Cooling System	Control Panel	Voltages
<ul style="list-style-type: none"> ● Oil with the machine 	<ul style="list-style-type: none"> ● Protection board from hotness ● Low frequency silencer 	<ul style="list-style-type: none"> ● Front heat protection ● 50°C radiator ● Coolant (-30°C) 	<ul style="list-style-type: none"> ● Remote control panel ● Automatic paralleling control panel ● Automatic Transfer Switch (ATS) 	<ul style="list-style-type: none"> ● 415/240V ● 400/230V ● 380/220V ● 220/127V ● 200-115V



Local Distributor