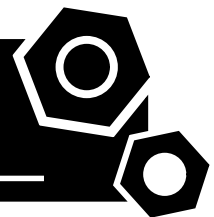


Generator set

Open type

GMS250C

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- China Compulsory Certification (CCC)
- TLC Quality Certification (TLC)
- ISO8528-1995
- GB/T2820-1997

Environmental Operating Conditions

- Installation place: Indoors (well ventilated).
- Ambient temperature: -25°C to 45°C. The coolant heater is needed when the temperature is below 5°C
- Humidity: Less than 80%.
- Altitude: Below one thousand (1000) meters above sea Level.

Factory Inspection

- Inspection items.
- Protection devices working test.
- Starting ability in normal temperature.
- 50% rated power load moment capability.
- Voltage deviation and speed variation: 0%, 25%, 50%, 75%, 100%, 110% Load.

Painting Process

- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

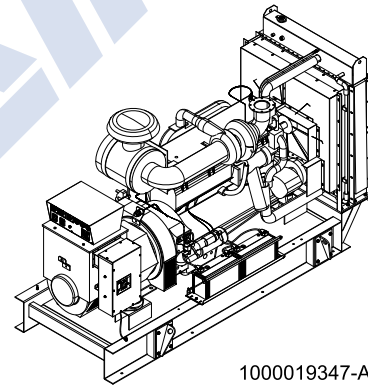
2 General Features

- Cummins engine NT855-GA
- Close coupled to a Stamford alternator UCIDI274K
- Microprocessor control module PLC-702
- NADER main circuit breaker: 3-Phase 400A
- Rotate speed governor: Electrical governor FP801
- Excitation System: Self Excited, SHUNT
- A.V.R. Model: AS440
- Key switch

- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 2x12V sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Oil pump on the engine
- Steel base frame with forklifts
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 8 hours running
- Drain points for fuel tank
- Operation Manual / Parts List / Specifications

3 Equipment Specification

General technical data



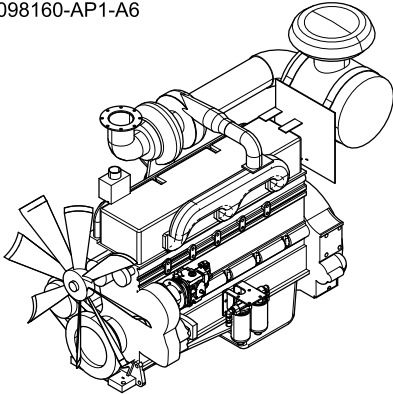
1000019347-AP1-A3

Model.....	GMS250C		
Structure type	R		
Tank capacity.....	410L		
Dry weigh.....	2712kg		
Noise level @7m	N/A		
Dimensions L×W×H.....	2932x1277x1828mm		
Standby Power	275kVA/220kW		
Prime Power.....	250kVA/200kW		

Voltage	380V	400V	415V
Ampere	380A	361A	348A

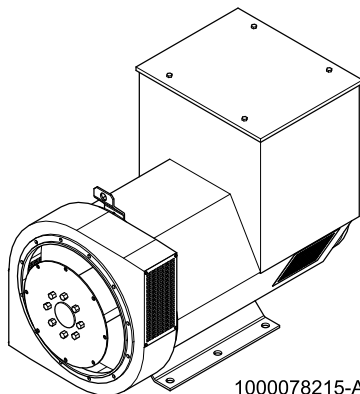
Diesel engine

1000098160-AP1-A6



Engine Manufacturer/Brand	Cummins
Engine Model	NT855-GA
Dimensions L×W×H.....	1922×816×1597mm
Dry Weigh (approx.)	1380Kg
Number of Cylinders.....	6
Bore.....	140mm
Stroke	152mm
Displacement.....	14L
Compression Ratio	15
Type of injection.....	Direct injection
Intake System.....	Turbocharged
Intake Resistance	≤6.22kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel.....	No.2-D per ASTM D975.
Type of Oil	API CD/SE or CCMCD4
Oil Capacity	38.6L
Type of Coolant	Glycol mixture
Coolant Capacity	60.6L
Back Pressure	≤10kPa
Standby Power254kW
Continuous Power231kW
Fuel Consumption(100%load).....	191.8g/kW.h

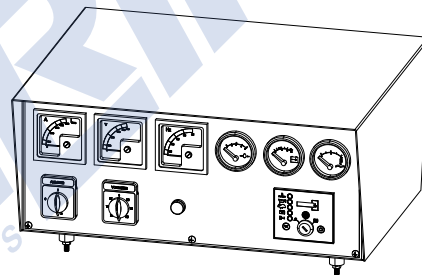
Alternator



1000078215-AP1-C2

Alternator Manufacturer/Brand	Stamford
Alternator Model	UCDI274K
Exciter.....	Brushless
Cooling Fan	Cast alloy aluminum
Windings.....	100% copper
Insulation Class	H
Winding Pitch.....	2/3
Terminals	12
Drip Proof	IP23
Altitude.....	≤1000m
Overspeed	2250rpm
Air Flow.....	0.58m³/s(50Hz),0.69m³/s(60Hz)
Voltage Regulation	±1.0%
Total Harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

PLC-702 Control System



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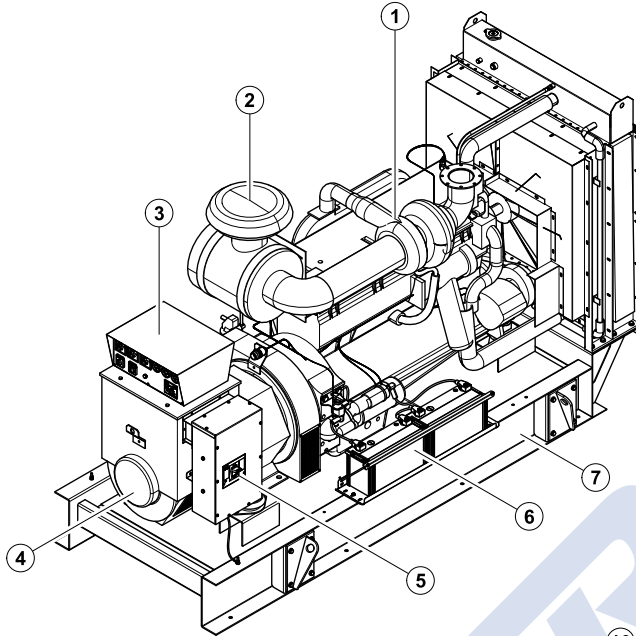
PLC-702 key manual start module is a manual engine control module designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault 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

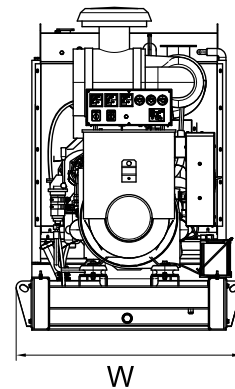
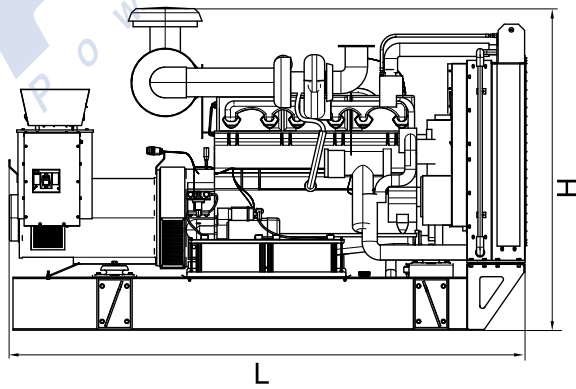
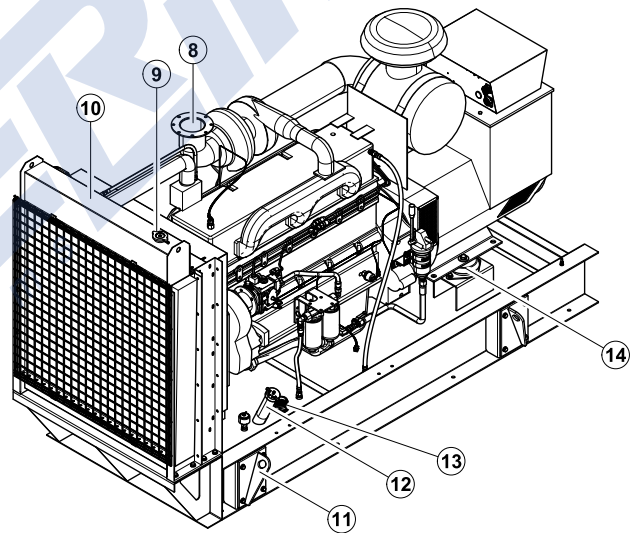
4 Overall Dimensions

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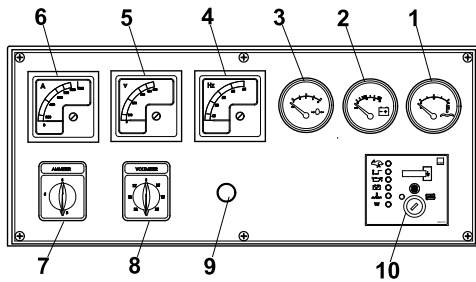


Dry weight	2712kg
Fuel tank capacity	410L
Dimensions L x W x H	2932x1277x1828mm

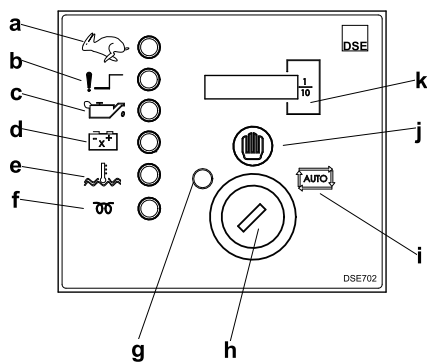
- ⑦ Base frame
- ⑥ Battery
- ⑤ Switch cabinet
- ④ Alternator
- ③ Control cabinet
- ② Air clearer
- ① Engine
- ⑭ Vibration isolator
- ⑬ Fuel lever meter
- ⑫ Fuel inlet
- ⑪ Lifting lug
- ⑩ Radiator
- ⑨ Water inlet
- ⑧ Mounting flange of vent-pipe



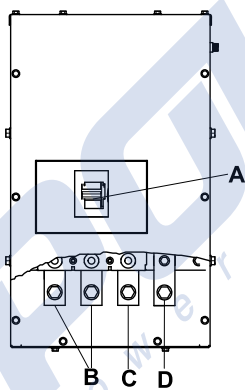
5 Control System



Control cabinet



Control panel



Field wiring cabinet

Ref.	Description
1	Water temperature meter
2	Battery voltage meter
3	Oil pressure meter
4	Frequency meter
5	Voltage meter
6	Current meter
7	Ammeter change-over switch
8	Voltmeter change-over switch
9	Charge indicator
10	PLC-702 control module

a	Over speed protection LED
b	Alarm LED
c	Low oil pressure protection LED
d	Charge failure warning LED
e	High engine temperature protection LED
f	Pre-heat LED
g	Stop model position
h	Control module key switch
i	Auto start position
j	Manual start button
k	Time counter

A	Main circuit breaker
B	Live wire terminals
C	Neutral wire terminal
D	Ground wire terminal

1000019347-A3-E

12.2010

POWERLINK[®]
Power Systems

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contact Power Link or your local distributors please.*