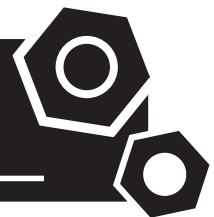


Generator set

Containerized type

WCS2250S

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- ISO8528
- GB/T2820
- YD/502-2007
- JB/T20136-2006

Environmental Operating Conditions

- Installation place: Outdoors or indoors (well ventilated).
- Ambient temperature: -25°C to 50°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.

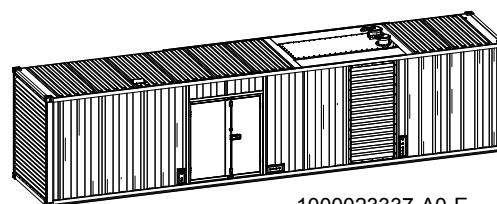
2 General Features

- Cummins engine QSK60-G4
- Close coupled to a Stamford alternator PI734F
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 3200A
- RCQ
- Rotate speed governor: Electronic fuel injection governor
- Excitation system: PMG
- A.V.R model: MX341
- Key switch
- Emergency stop switch
- 1xMains input/remote communication connector + 2x paralleling communication connector
- Fuel adding device

- 2x ventilation fan + 4 x cooling fan
- ATS (automatic transfer switch) receptacle
- 4x12V/200AH 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 forklots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank with 9 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

General technical data

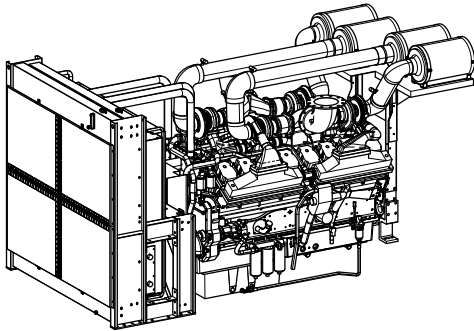


Model.....	WCS2250S
Structure type	C
Tank capacity.....	3500L
Dry weight.....	28640kg
Noise level @7m	N/A
Dimensions L×W×H.....	12192x2438x3154mm
Standby Power	2250kVA/1800kW
Prime Power.....	2045kVA/1636kW

Voltage	380V	400V	415V	440V	
Ampere	3107.1A	2951.7A	2845A	2683.4A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	114	200	291	394	437

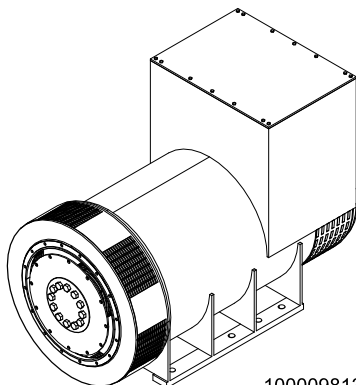
Diesel engine

1000097855-AP1-A3



Engine Manufacturer/Brand.....	Cummins
Engine Model.....	QSK60G4
Dimensions L×W×H.....	4123×2494×3296mm
Dry Weigh (approx.)	9685Kg
Number of Cylinders.....	16
Bore.....	159mm
Stroke	190mm
Displacement.....	60.2L
Compression Ratio	14.5
Type of injection.....	Direct injection
Intake System.....	Turbocharged
Intake Resistance	≤6.2kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel.....	No. 2 diesel or ASTM D2
Type of Oil	15W40 to API CG4
Oil Capacity	280L
Type of Coolant	Glycol mixture
Coolant Capacity	242L
Back Pressure	≤6.8kPa
Standby Power	1800kW
Prime Power.....	1636kW
Fuel Consumption(100%load).....	394L/h

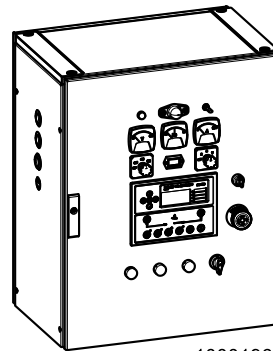
Alternator



1000098133-AP1-A2

Alternator Manufacturer/Brand	Stamford
Alternator Model	PI734F
Exciter.....	Brushless
Cooling Fan	Cast alloy aluminum
Windings.....	100% copper
Insulation Class	H
Winding Pitch.....	2/3
Terminals	6
Drip Proof	IP23
Altitude.....	≤1000m
Overspeed	2250rpm
Air Flow.....	2.69m³/s(50HZ),3.45m³/s(60HZ)
Voltage Regulation	±1.0%
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

PLC-7420 Control System



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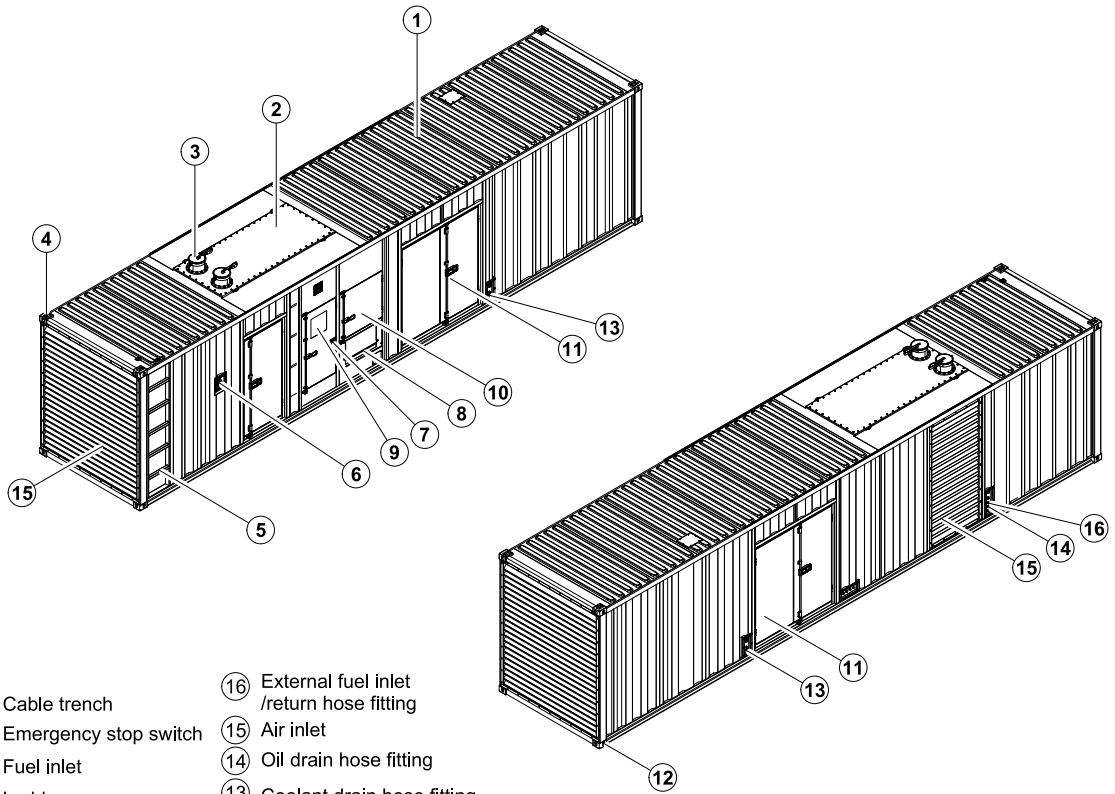
PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and display all values and alarms information on the LCD. In addition, the control module can automatically shut down the engine and indicate the engine failure.

- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, automatic and remote work mode selectable
- Real time clock for time and date display, overall runtime display, 250 log entries
- Overall power output display
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed etc.
- Communication with PC via RS485 OR RS232 interface, using MODBUS protocol

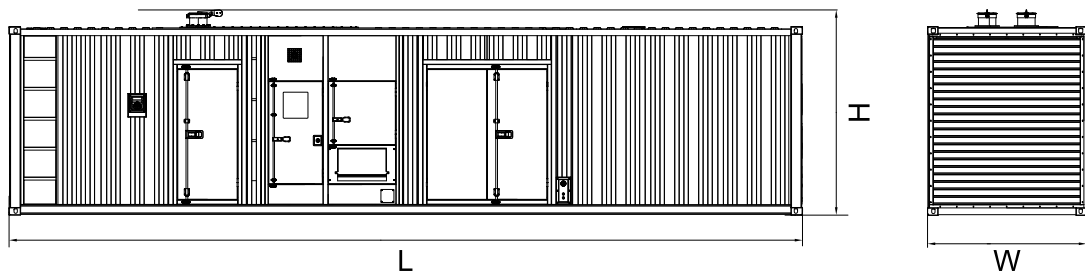
4 Overall Dimensions

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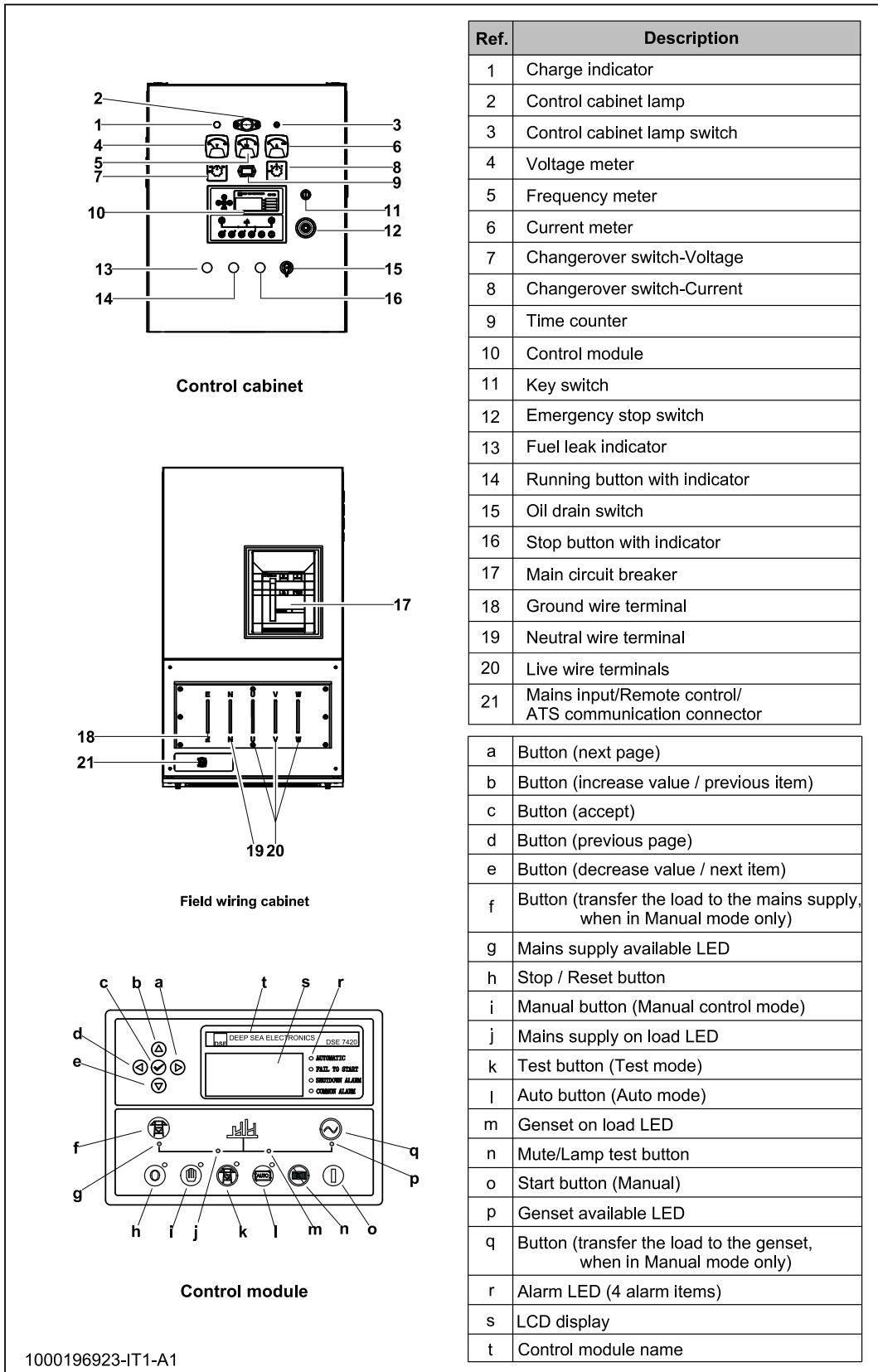
Dry weight	28640kg
Fuel tank capacity	3500L
Dimensions L x W x H	12192x2438x3154mm



- ⑧ Cable trench
- ⑦ Emergency stop switch
- ⑥ Fuel inlet
- ⑤ Ladder
- ④ Lifting lug
- ③ Exhaust gas outlet
- ② Muffler
- ① Canopy
- ⑩ Switch cabinet
- ⑨ Control cabinet
- ⑪ Access door
- ⑫ Fixing lug
- ⑬ Coolant drain hose fitting
- ⑭ Oil drain hose fitting
- ⑮ Air inlet
- ⑯ External fuel inlet /return hose fitting



5 Control System



1000023337-A0-E

08.2018

<http://www.powerlinkworld.com>

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