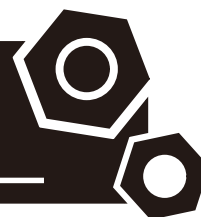


**Generator set**

**Containerized type**

**WCS810S**

# **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: 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.

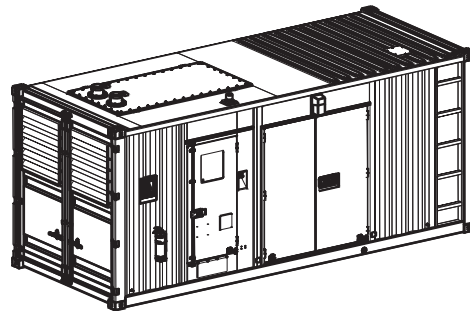
## 2 General Features

- Cummins engine QSK23-G2
- Close coupled to a Stamford alternator HCI634G
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 1250A
- Rotate speed governor: Electronic fuel injection gover-nor
- Excitation System: PMG
- A.V.R.Model: MX321
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle

- 4x12V/200AH sealed for life maintenance free battery
- Lockable battery isolator switch
- 50°C radiator
- Oil pump on the engine
- Steel base frame with lifting lugs
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Fuel tank for 10 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

## 3 Equipment Specification

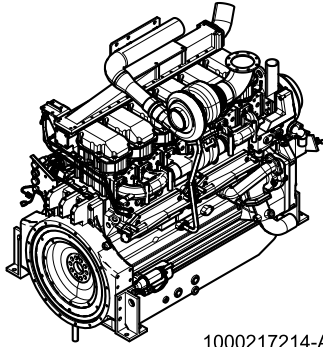
### General technical data



Model.....	WCS810Ù
Structure type .....	Ô
Tank capacity.....	1450L
Dry weight.....	11250kg
Noise level @7m .....	N/A
Sound power level acc. 2000/14/EC .....	N/A
Dimensions L×W×H.....	6058x2438x2591mm
Standby Power .....	810kVA/648kW
Prime Power .....	750kVA/600kW

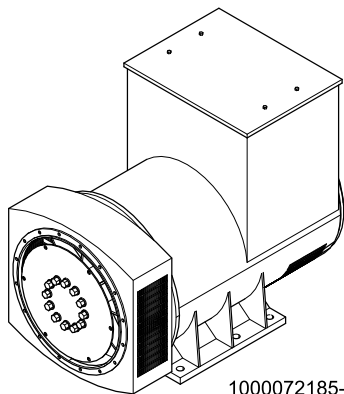
Voltage	380V	400V	415V	440V	
Ampere	1140A	1082A	1043A	984A	
<b>Genset Fuel Consumption</b>					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	/	72.5	107.0	144.0	132.5

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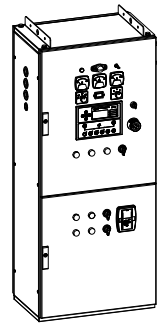
Engine Manufacturer/Brand.....	Cummins
Engine Model.....	QSK23-G2
Dimensions L×W×H.....	2885×1656×2029mm
Dry Weigh (approx.).....	3055kg
Number of Cylinders.....	6
Bore.....	170mm
Stroke.....	170mm
Displacement.....	23.1L
Compression Ratio.....	16
Type of injection.....	Cummins HPI
Intake System.....	Turbocharged, air-to-air charged cooled
Intake Resistance.....	≤6.22kPa
Cooling System.....	Water cooled
Fan.....	Pusher
Battery Voltage.....	24V
Type of Fuel.....	No.2 or ASTM D975
Type of Oil.....	API CD/SE or CCMCD4
Oil Capacity.....	103L
Type of Coolant.....	Glycol mixture
Coolant Capacity.....	57L
Back Pressure.....	≤10.2kPa
Standby Power.....	.690kW
Prime Power.....	.650kW
Fuel Consumption(100%load).....	.152L/h



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Alternator Manufacturer/Brand.....	Stamford
Alternator Model.....	HCI634G
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.....	.2250 rpm
Air Flow.....	1.614m³/s(50HZ), 1.961m³/s(60HZ)
Voltage Regulation.....	±0.5%
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

## PLC-7420 Control System



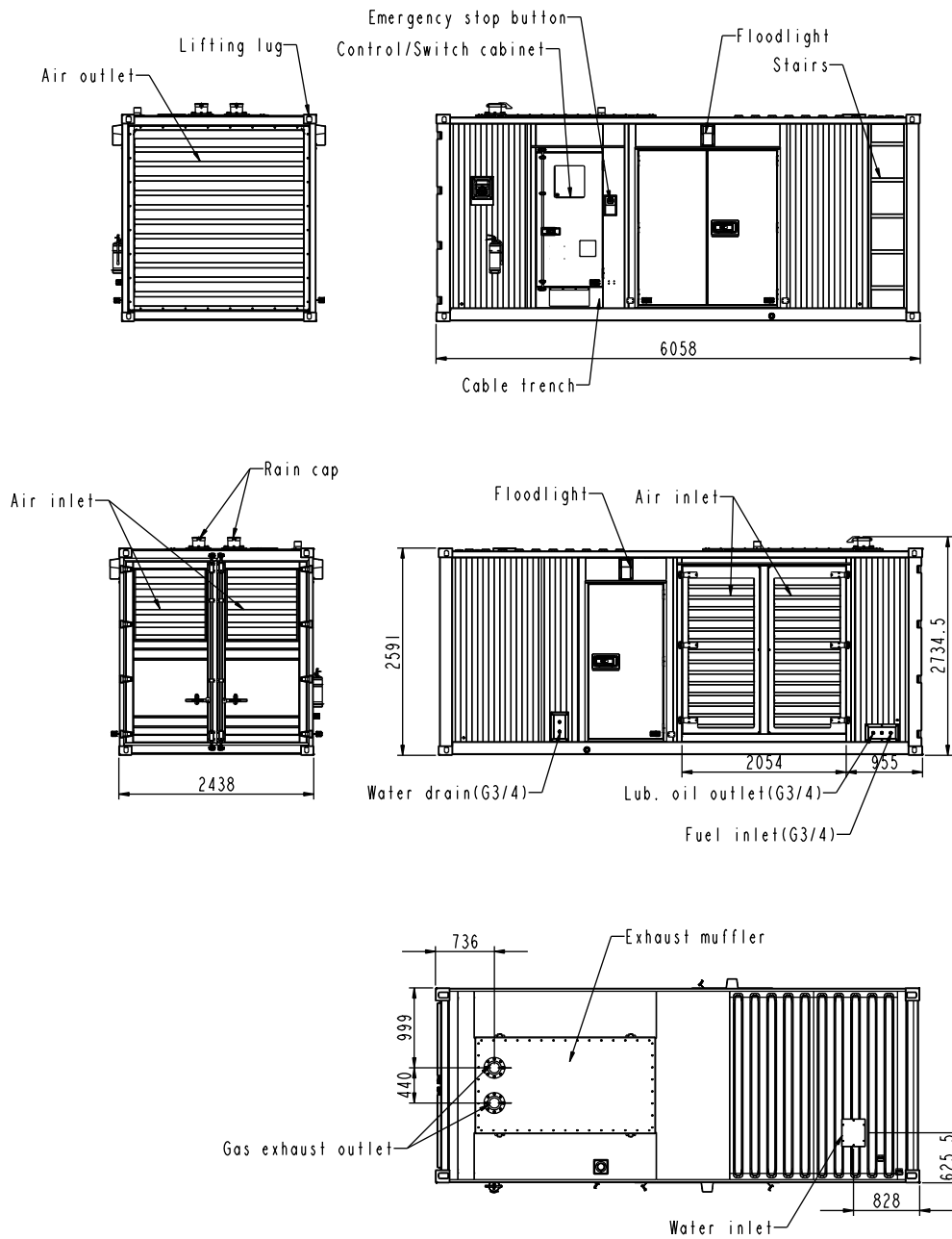
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PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. 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

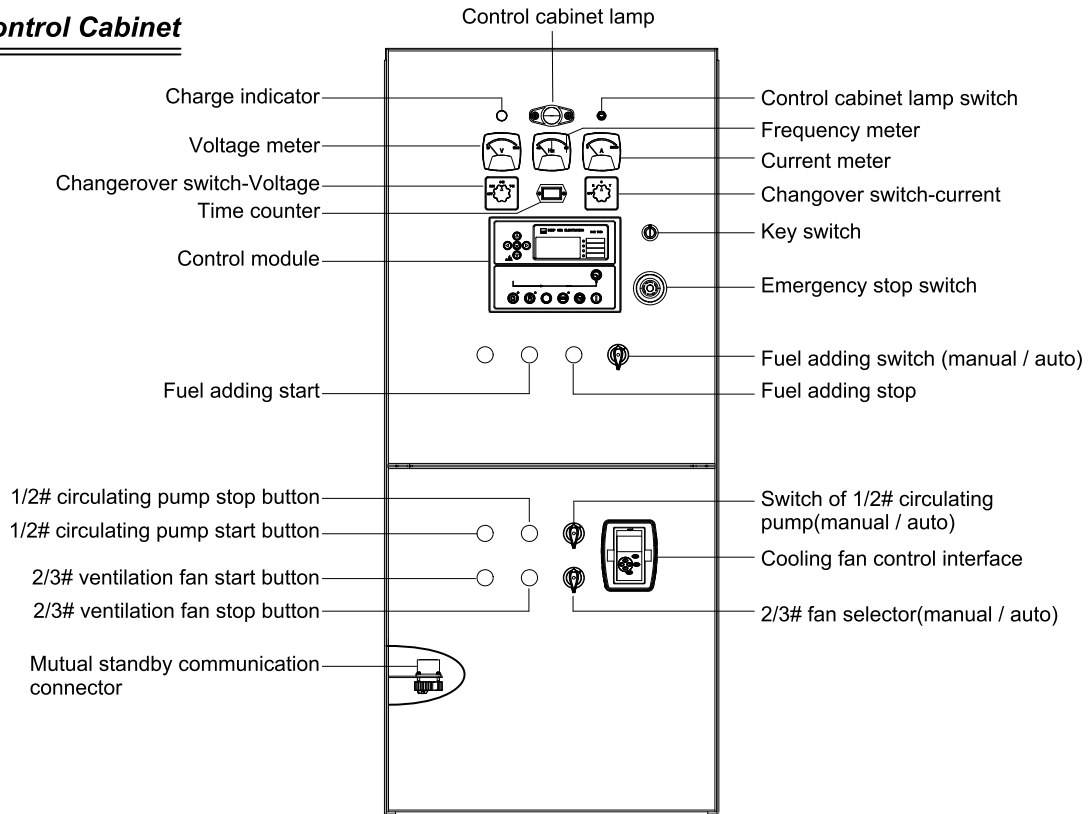
## 4 Overall Dimensions

Dry weight	11250kg
Fuel tank capacity	1450L
Dimensions L x W x H	6058x2438x2591mm

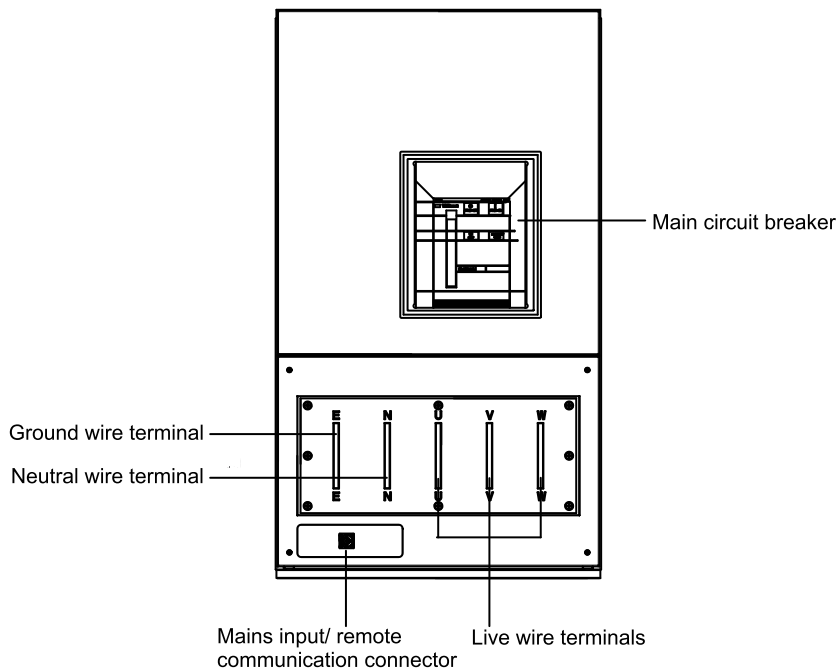


## 5 Control System

### Control Cabinet



### Breaker Cabinet



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