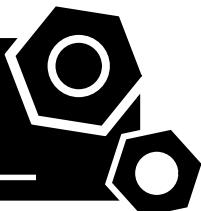


Generator set
Sound-proof type
WCS700S

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.

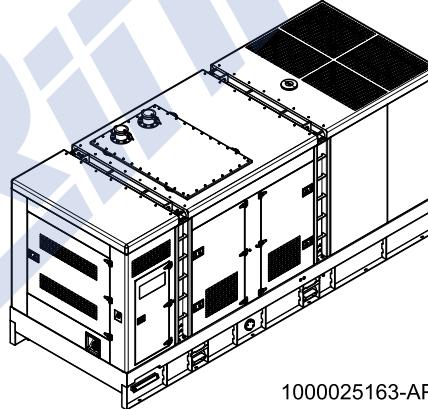
2 General Features

- Cummins engine VTA28-G5
- Close coupled to a Stamford alternator HCI544F
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 1000A
- Rotate speed governor: Electronic fuel injection governor
- Excitation system: Self excited
- A.V.R model: AS440
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 2x12V/150AH 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 forklift slots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank with 7 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

General technical data

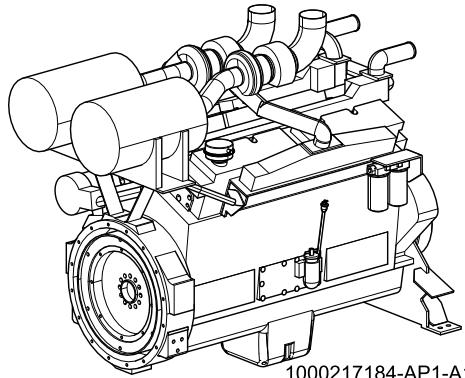


1000025163-AP1-A1

Model.....	WCS700S
Structure type	R
Tank capacity.....	1000L
Dry weight.....	8827kg
Noise level @7m	N/A
Sound power level acc. 2000/14/EC	N/A
Emissions Compliance	N/A
Dimensions L×W×H.....	5456x2061x2665mm
Standby Power	706kVA/565kW
Prime Power	640kVA/512kW

Voltage	380V	400V	415V	440V	
Ampere	972.4A	923.7A	890A	839.8A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	40.8	69.3	98.8	133	146.3

Dck Yf GnghYa

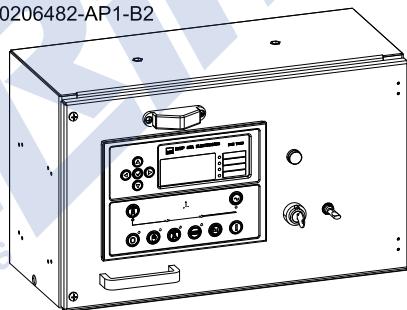


Engine Manufacturer/Brand.....	Cummins
Engine Model.....	VTA28-G5
Dimensions L×W×H.....	2098×1330×1692mm
Dry Weight (approx.)	2900kg
Number of Cylinders.....	12
Bore	140mm
Stroke	152mm
Displacement.....	.28L
Compression Ratio.....	13
Type of injection.....	Direct injection
Intake System.....	Turbocharged,air-to-air charge cooled
Intake Resistance.....	6.2kPa
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	91.0L
Type of Coolant	Glycol mixture
Coolant Capacityengine only	24.0L
Back Pressure	10.1kPa
Standby Power	612kW
Prime Power	560kW
Fuel Consumption(100%load).....	140L/h

Alternator Manufacturer/Brand	Stamford
Alternator Model	HCI544F
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	2250 rpm
Air Flow.....	1.035m³/s(50HZ),1.312m³/s(60HZ)
Voltage Regulation	±1.0%
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

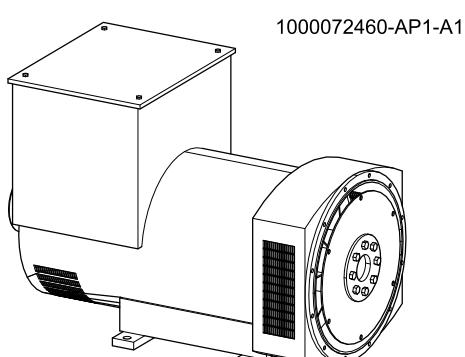
PLC-7420 Control System

1000206482-AP1-B2



PLC-7420 is an advanced control module based on microprocessor, 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.

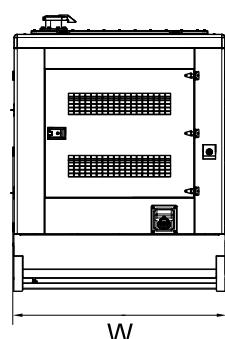
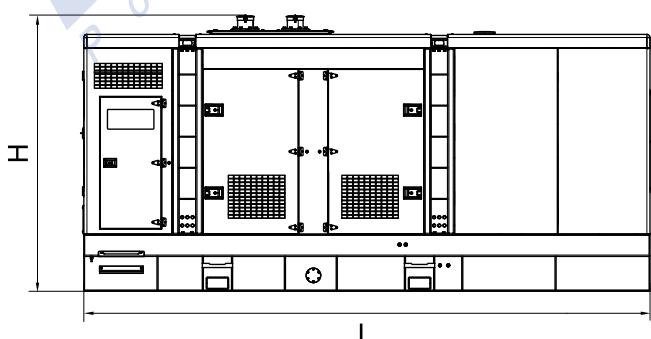
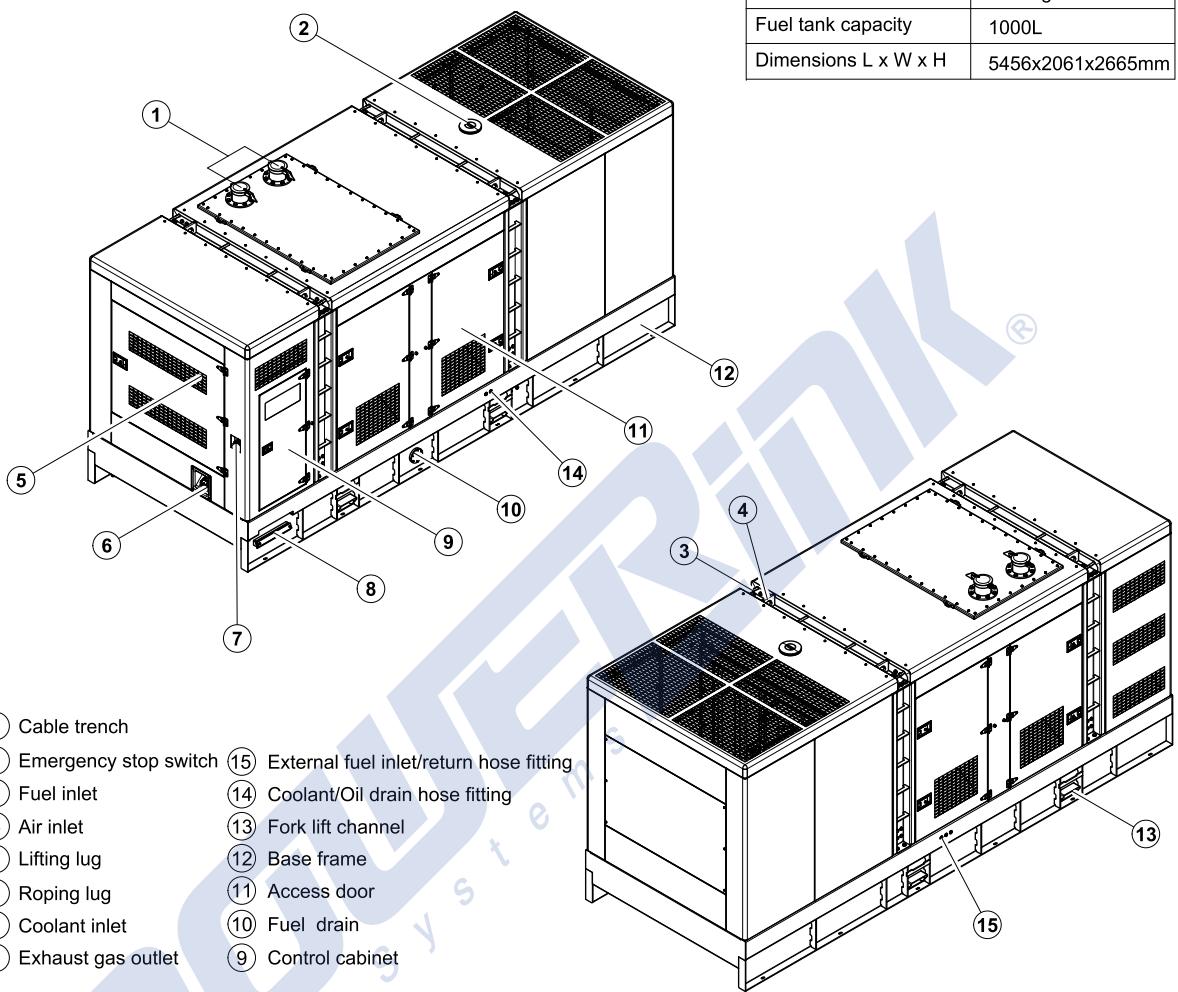
- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, 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



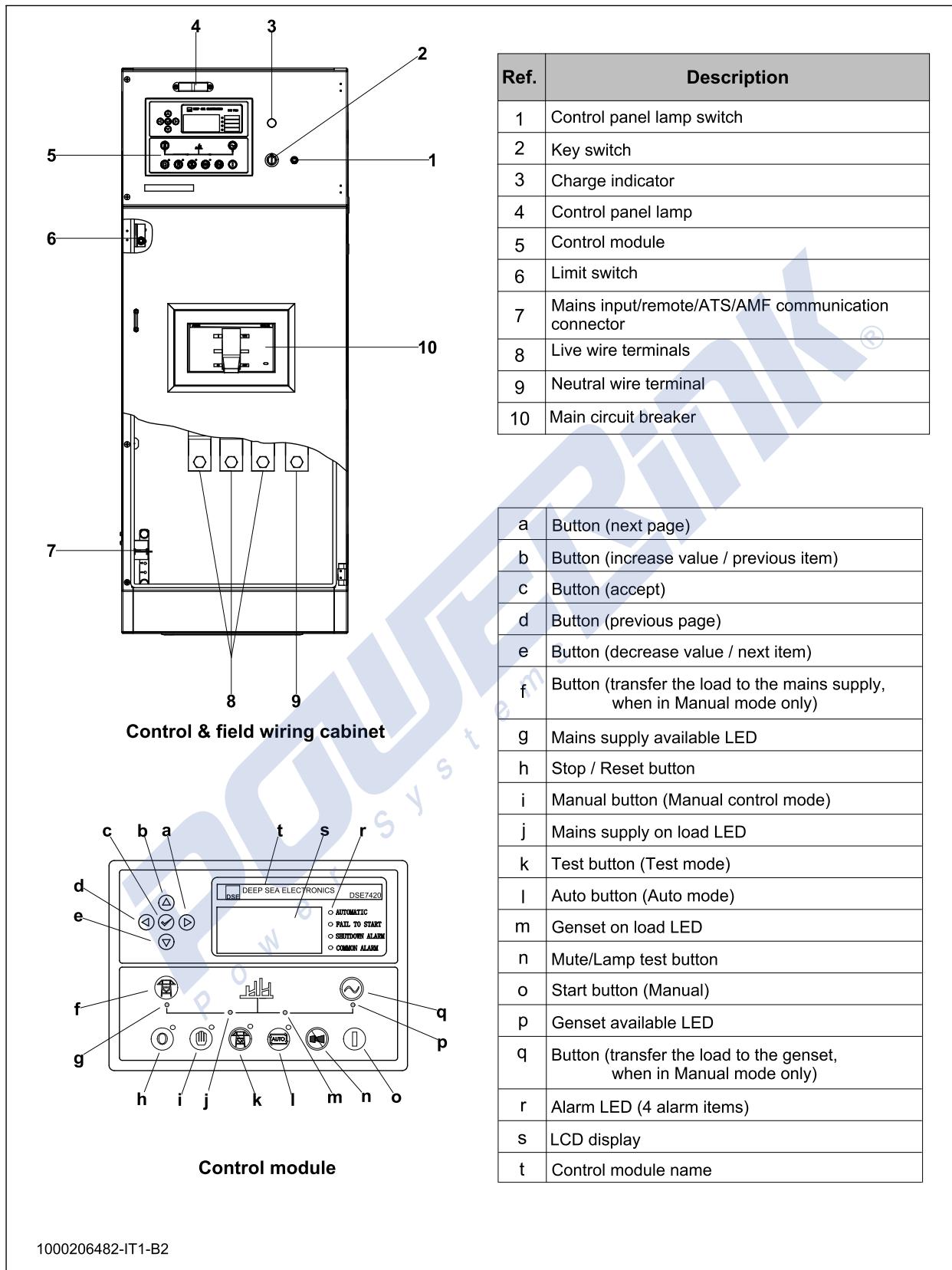
4 Overall Dimensions

1000025163-DR1-A1

Dry weight	8827kg
Fuel tank capacity	1000L
Dimensions L x W x H	5456x2061x2665mm



5 Control system



1000025163-A1-E

04.2014



<http://www.powerlinkworld.com>

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

©2014 POWERLINK