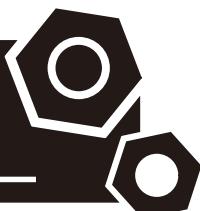


Generator set

Open type

WCS400

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.

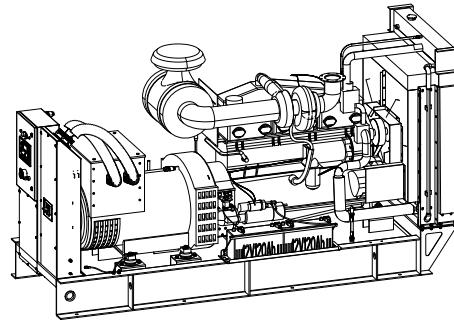
2 General Features

- Cummins engine NTA855-G4
- Close coupled to a Stamford alternator HCI444E
- Microprocessor control module PLC-7420
- NADER main circuit breaker: 630A
- Rotate speed governor: Electrical governor FP801
- Excitation system: Self excited
- A.V.R model: AS440
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle

- 2x12V/120AH 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
- Base fuel tank for 9 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

General technical data

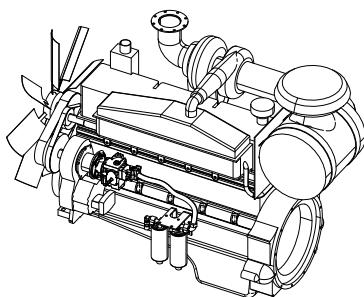


1000000698-AP1-E5

Model.....	WCS400
Structure type	A
Tank capacity.....	715L
Dry weight.....	3300kg
Noise level @7m	N/A
Dimensions L×W×H.....	3418×1130×2050mm
Standby Power	390kVA/312kW
Prime Power	350kVA/280kW

Voltage	380V	400V	415V	440V
Ampere	532A	505A	487A	459A
Genset Fuel Consumption				
Frequency/Load	25%	50%	75%	100%
50Hz (L/h)	21.0	39.0	57.0	76.0
				84.0

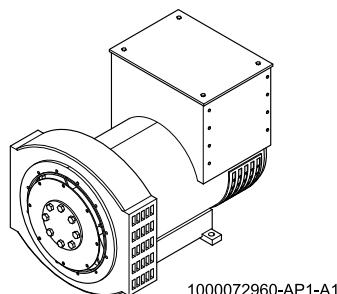
Power System



1000079858-AP1-A3

Engine Manufacturer/Brand.....	Cummins
Engine Model.....	NTA855-G4
Dimensions L×W×H.....	2055x990x1535mm
Dry Weight (approx.)	1410Kg
Number of Cylinders.....	6
Bore.....	140mm
Stroke	152mm
Displacement.....	14L
Compression Ratio.....	14
Type of injection.....	Direct injection
Intake System.....	Turbocharged
Intake Resistance.....	≤6.25kPa
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
Heat Rejected To Exhaust System.	198kW(11280BTU/min)
Heat Rejected To Water&Oil.....	238kW(13530BTU/min)
Back Pressure	≤10kPa
Standby Power	351kW
Prime Power	317kW
Fuel Consumption(100%load).....	76L/h

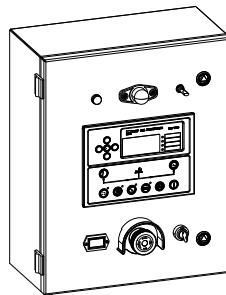
Alternator



1000072960-AP1-A1

Alternator Manufacturer/Brand	Stamford
Alternator Model	HCI444E
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.....	0.8m³/s(50HZ),0.99m³/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



1000246420-AP1-A1

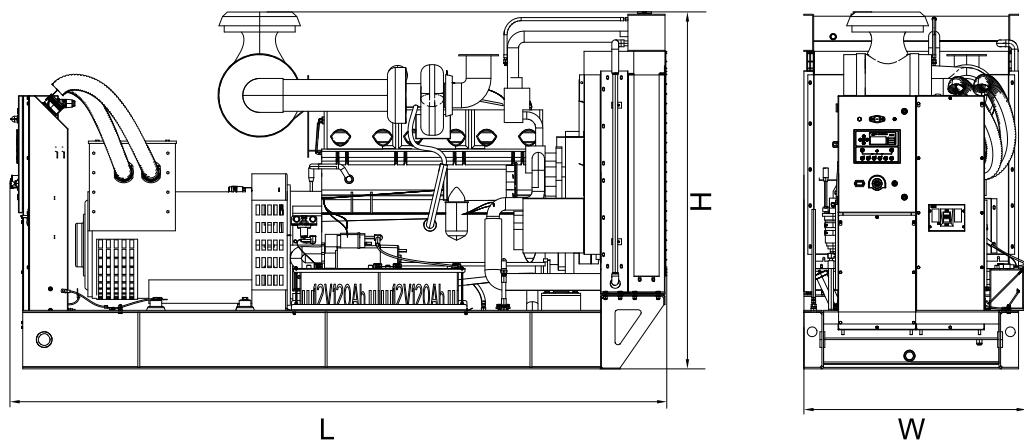
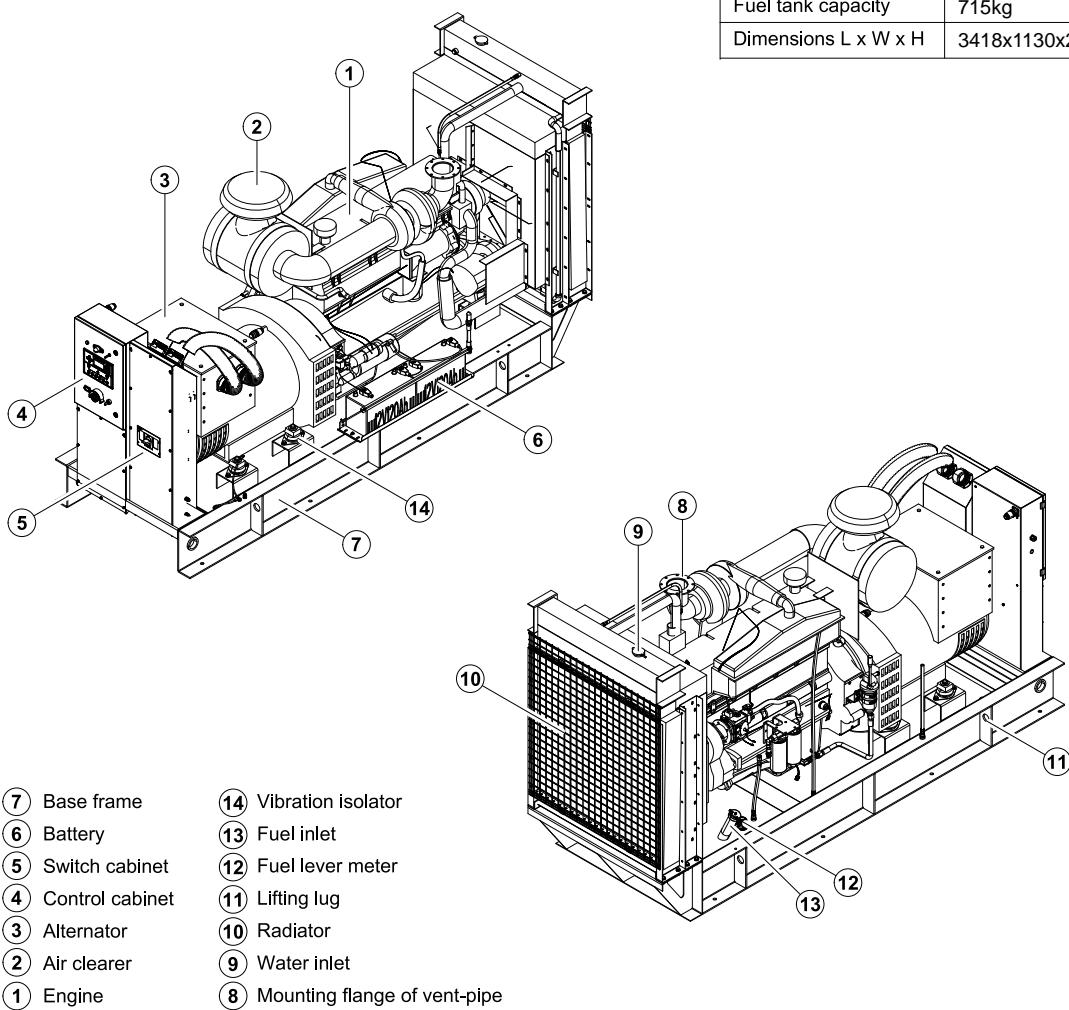
PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

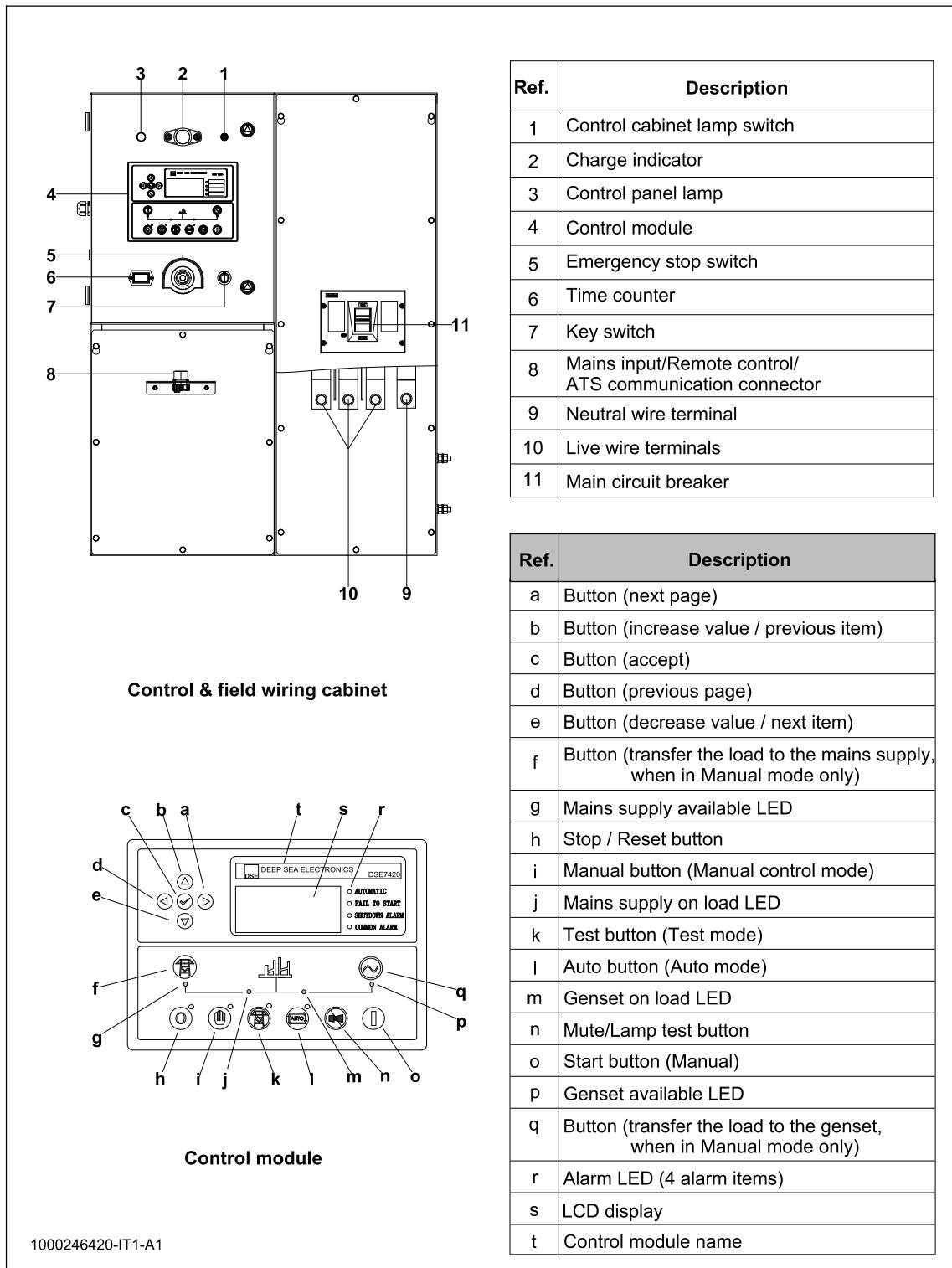
4 Overall Dimensions

1000000698-DR1-E5

Dry weight	3300kg
Fuel tank capacity	715kg
Dimensions L x W x H	3418x1130x2050mm



5 Control System



1000025158-A-E
12.2018

<http://www.powerlinkworld.com>

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

©2018 POWERLINK