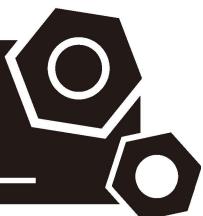


Generator set

Sound-proof type

WPS650S

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- China Compulsory Certification (CCC)
- ISO8528-5:2005
- GB/T2820.5-2009

Environmental Operating Conditions

- Installation place: Outdoors or 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.

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.

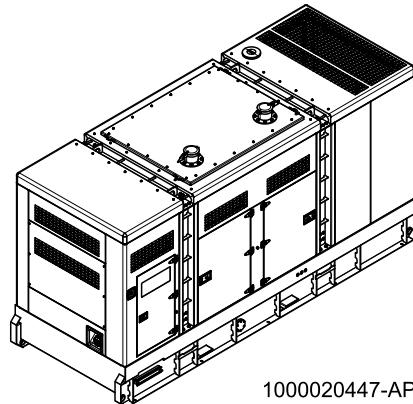
2 General Features

- Perkins engine 2806A-E18TAG2
- Close coupled to a Leroy Somer alternator LSA47.3L10
- Microprocessor control module DSE8610
- Breaker Brand: NADER
- Rotate speed governor: Electronic fuel injection governor
- Excitation System: SHUNT
- A.V.R.Model: R250
- 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 forklift slots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 7 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

General technical data

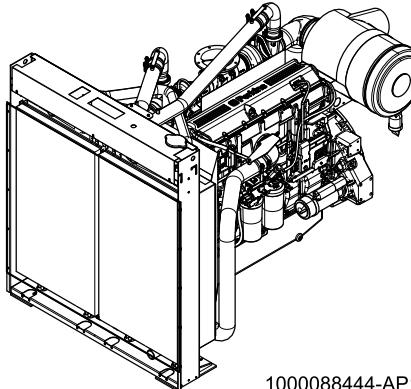


1000020447-AP1-B3

Model.....	WPS650S
Structure type	R
Tank capacity.....	945L
Dry weigh.....	6482kg
Noise level @7m	75.7dB(A)
Dimensions L×W×H.....	4692x1763x2516mm
Standby Power	700kVA/560kW
Prime Power	650kVA/520kW

Voltage	380V	400V	415V		
Ampere	987.6A	938.2A	804.3A		
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	66	97	132	143

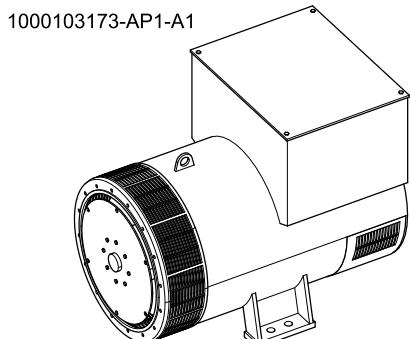
Diesel Engine



1000088444-AP1-A3

Engine Manufacturer/Brand.....	Perkins
Engine Model.....	2806A-E18TAG2
Dimensions L×W×H.....	2545×1536×1807.5mm
Dry Weigh (approx.)	2050kg
Number of Cylinders.....	6
Bore	145mm
Stroke.....	183mm
Displacement.....	18.13L
Compression Ratio.....	14.5
Type of Injection	MEUI
Intake System.....	Turbocharged,air-to-air charge cooled
Intake Resistance.....	$\leq 6.4\text{kPa}$
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel.....	BS2869 class A2 or BS EN590
Type of Oil	API CG4 or APEA E5
Oil Capacity	62L
Type of Coolant	Glycol Mixture
Coolant capacity	61L
Back Pressure	$\leq 6.9\text{kPa}$
Standby Power	560kW
Prime Power	520kW
Fuel Consumption(100%load).....	132L/h

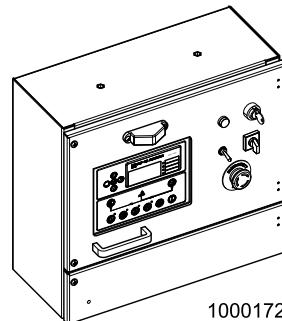
Alternator



1000103173-AP1-A1

Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA47.3L10
Exciter.....	Brushless
Cooling Fan	Cast alloy aluminum
Windings.....	100% copper
Insulation Class	H
Winding Pitch2/3
Terminals	6
Drip Proof	IP23
Altitude.....	$\leq 1000\text{m}$
Overspeed	2250rpm
Air Flow.....	0.9m³/s(50Hz),1.1m³/s(60Hz)
Voltage Regulation	$\pm 0.5\%$
Total harmonicTGH / THC at no load < 1.5 % - on load < 2%	
Telephone Interference.....	THF<2%;TIF<50

PLC-7420 Control System



1000172720-AP1-F2

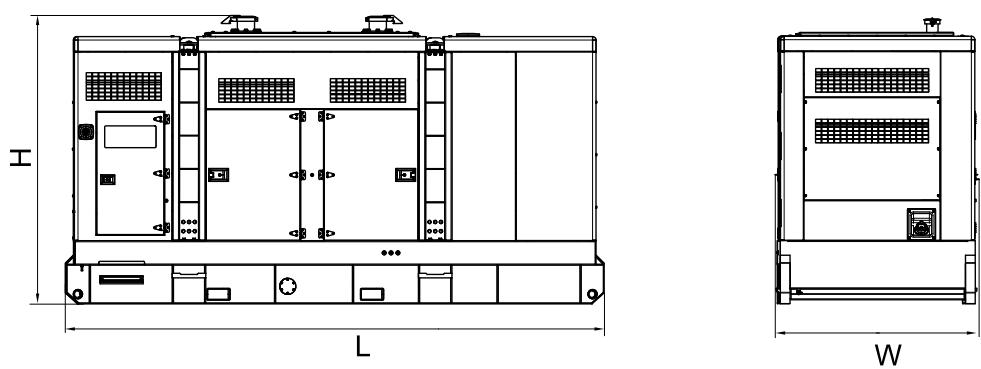
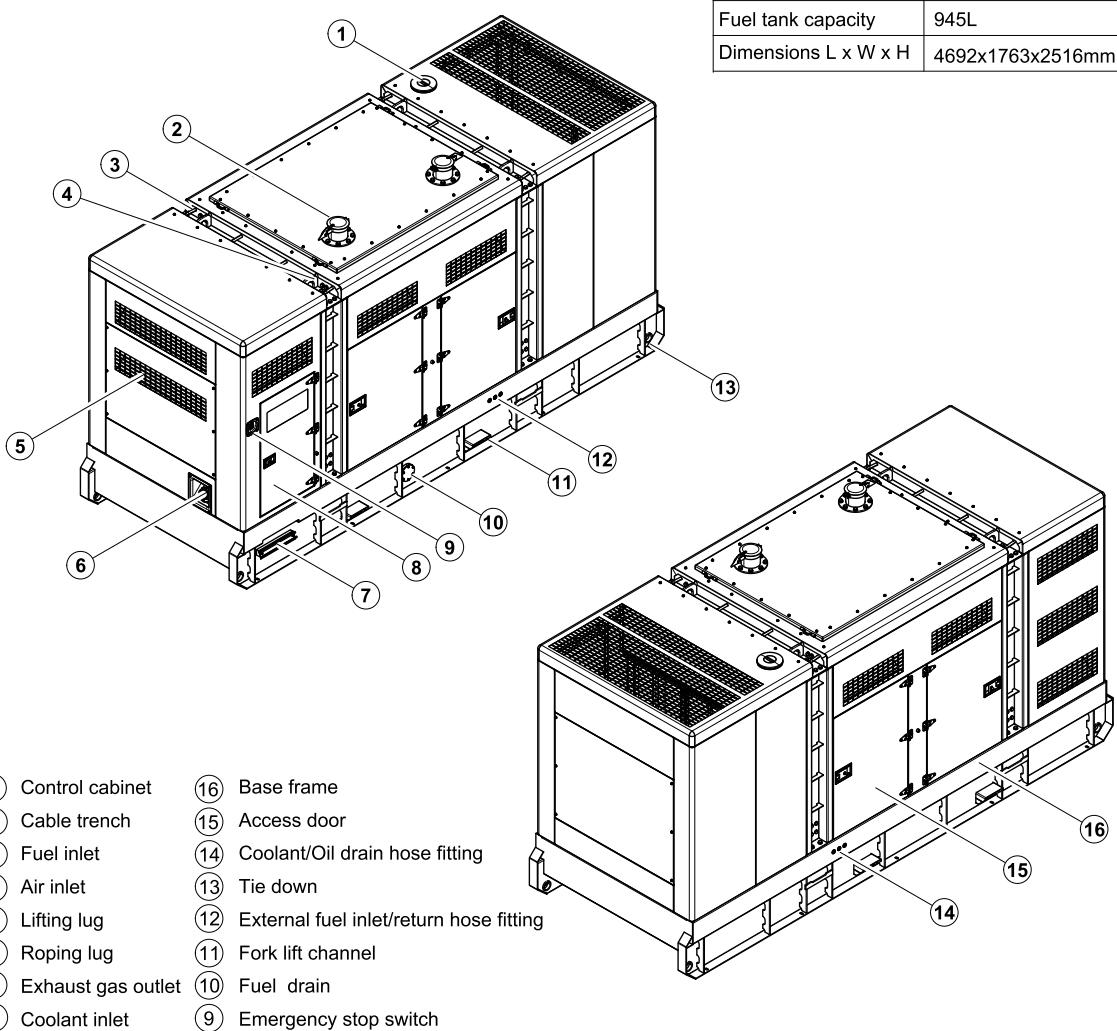
PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

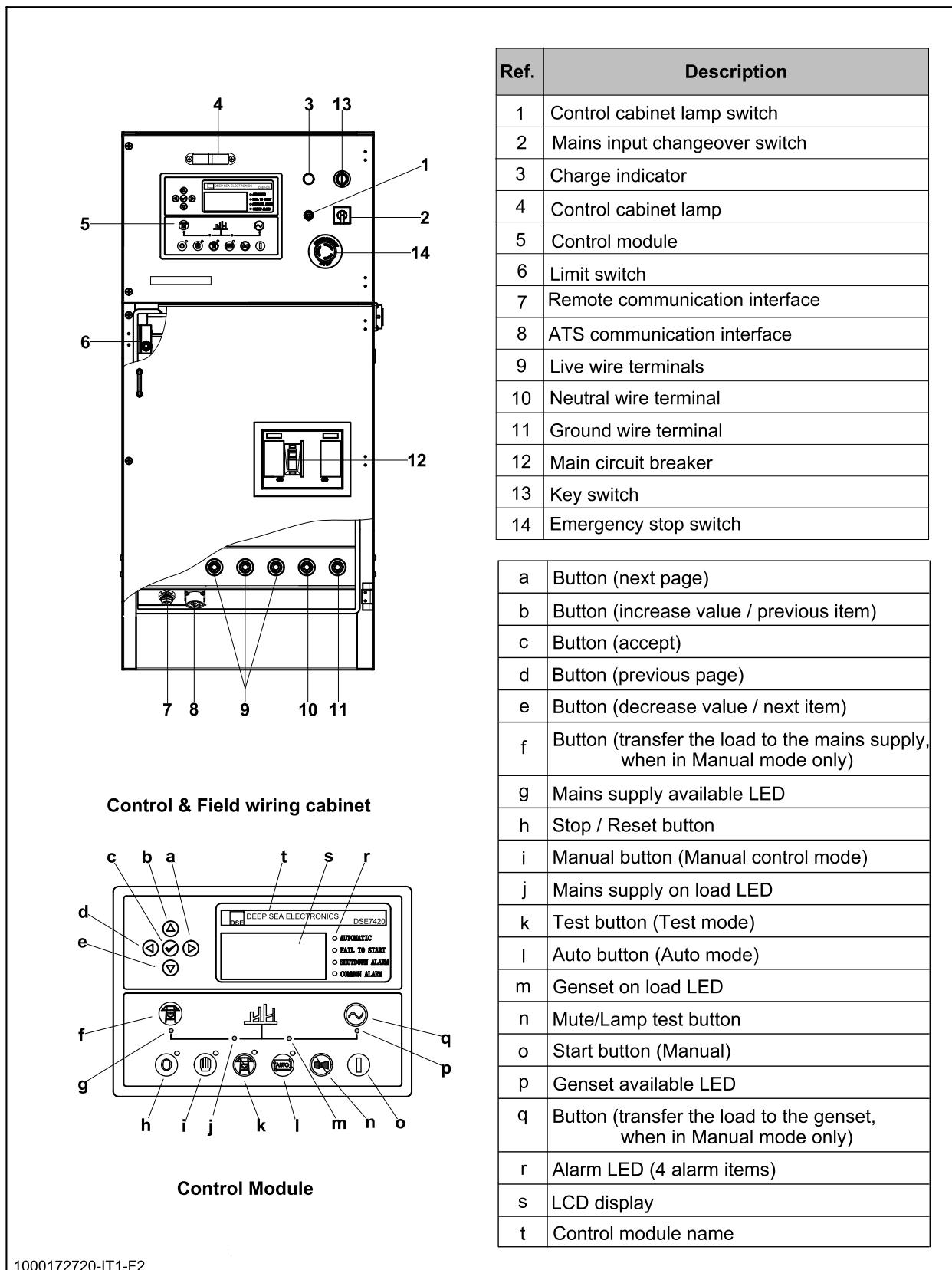
4 Overall Dimensions

1000020447-DR1-B3

Dry weight	6482kg
Fuel tank capacity	945L
Dimensions L x W x H	4692x1763x2516mm



5 Control System



1000020447-B3-E
05.2012