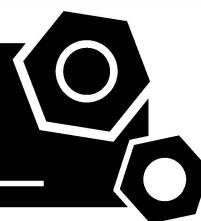


Generator set
Sound-proof type
WPS14D6S-EPA

SPECIFICATIONS



T3 series WPS14D6S-EPA

60 Hz @ 1800rpm, 3-phase/4-wiring



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- 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 90%.
- 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.

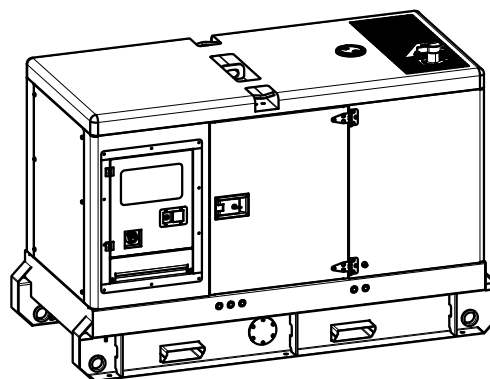
2 General Features

- Perkins engine 403D-15G
- Close coupled to Leroy-somer alternator LSA 40 S3
- Microprocessor control module PLC-920
- ABB main circuit breaker: 63A
- Rotate speed governor: Mechanical governor
- Excitation System: self excited, SHUNT
- A.V.R. Model: R220
- Key switch

- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 1x12V 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 forklifts
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 23 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

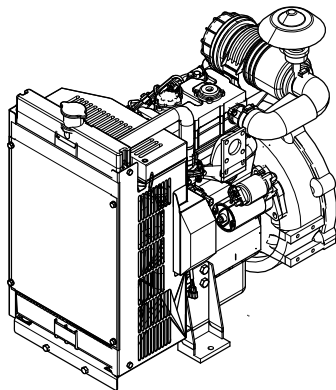
General technical data



Model.....WPS14D6S-EPA
Structure type R
Tank capacity.....100L
Dry weight.....720kg
Noise level @7m 67.7dBA
Dimensions L×W×H..... 1932x830x1309mm
Standby Power 18kVA/14kW

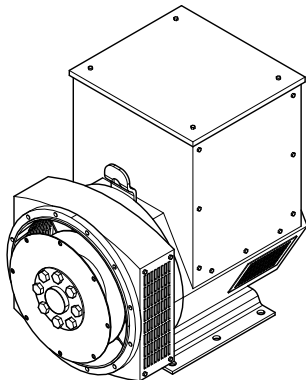
Voltage	208V	220V	230V	240V	
Ampere	38.9A	36.7A	35.1A	33.7A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
60Hz (L/h)	N/A	2.4	3.2	4.3	4.7

Diesel engine



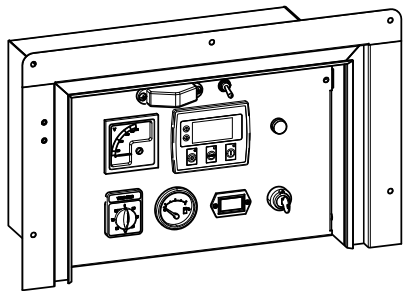
Engine Manufacturer/Brand.....	Perkins
Engine Model.....	403D-15G
Dimensions L×W×H.....	820×476×791mm
Dry Weigh (approx.)	197kg
Number of Cylinders.....	3
Bore.....	84mm
Stroke	90mm
Displacement.....1.....	1.496L
Compression Ratio.....	22.5
Type of Injection	Indirect injection
Intake System.....	Natural aspirated
Intake Resistance.....	≤6.4kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12V
Type of Fuel.....	EPA2D 89.330-96/CEC RF-06-99
Type of Oil	API-CH-4/ ACEA E5
Oil Capacity	6.0 L
Type of Coolant	Glycol mixture
Coolant Capacity	6.0L
Back Pressure	≤10.2kPa
Standby Power	16.2kW
Fuel Consumption(100%load).....	247g/kWh

Alternator



Alternator Manufacturer/Brand	Leroy-somer
Alternator Model	LSA 40 S3
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.....	0.06 m³/s, 50 Hz - 0.072 m³/s, 60 Hz
Voltage Regulation	±1%
Total harmonic TGH / THC	< 3%
Telephone Interference.....	THF<2%;TIF<50

PLC-920 Control System

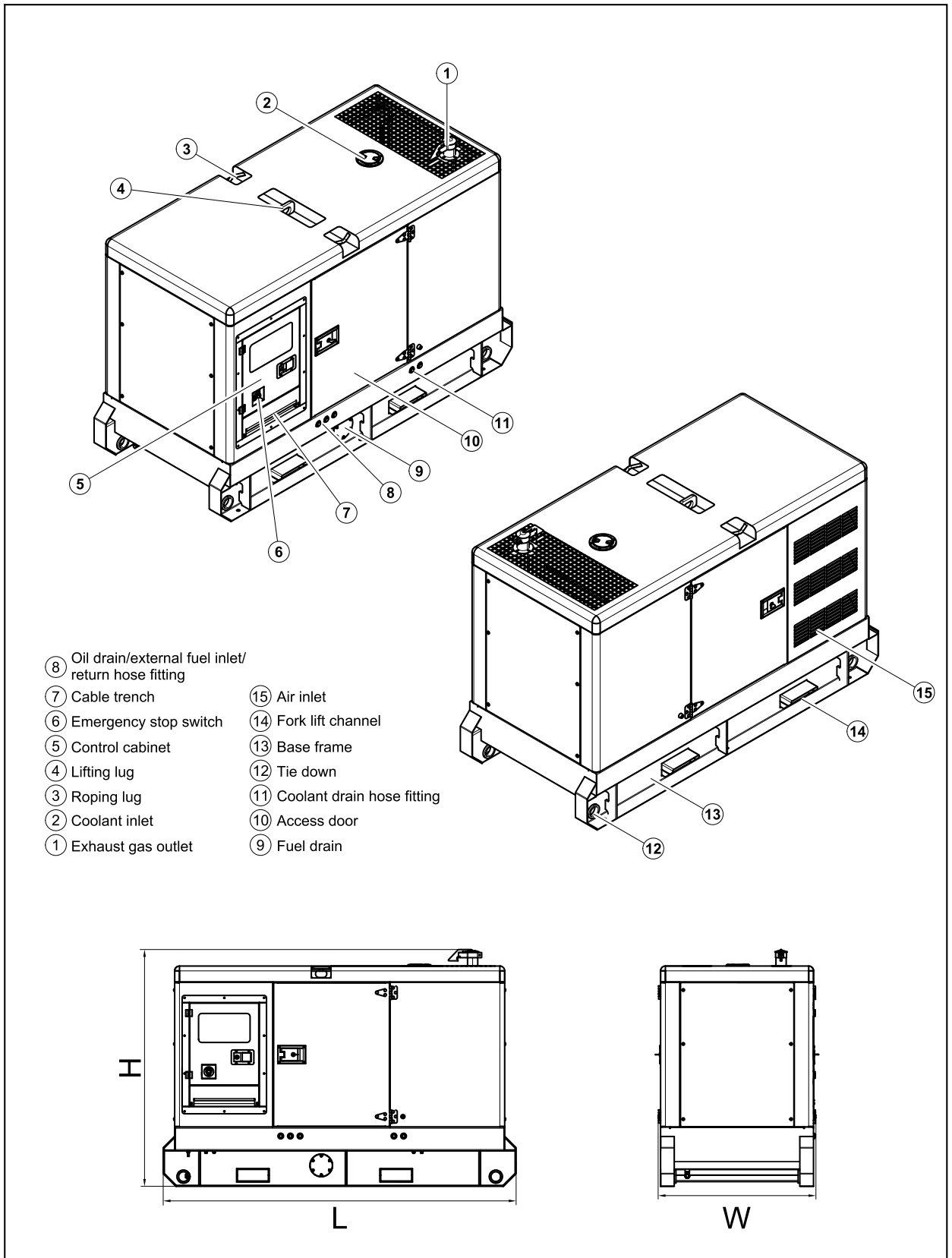


PLC-920 is an advanced control module based on micro-processor designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine failure.

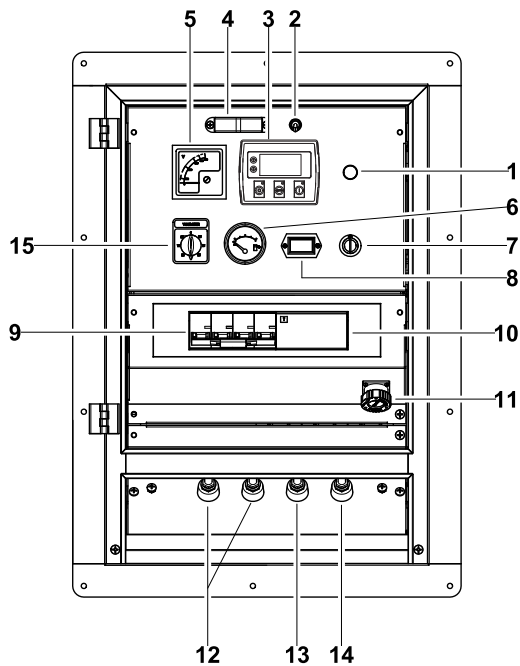
Standard Control Function

- Manual Engine Control Module
- Low Oil Pressure
- High Engine Temperature
- Auxiliary Shutdown
- Overspeed Protection
- Protection hold-off timer
- Charge Failure warning

4 Overall Dimensions

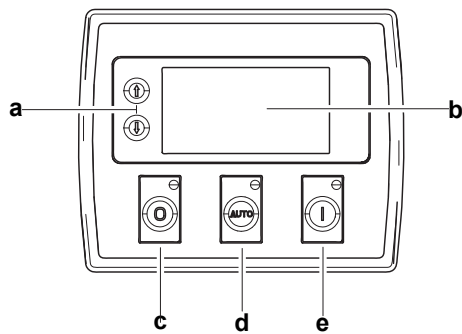


5 Overall Dimensions



Control & field wiring cabinet

Ref.	Description
1	Charge indicator
2	Control cabinet lamp switch
3	Control module
4	Control cabinet lamp
5	Voltage meter
6	Fuel level meter
7	Key switch
8	Time counter
9	Main circuit breaker
10	RCD.
11	Mains input /ATS /Remote communication connector
12	Live wire terminal
13	Neutral wire terminal
14	Ground wire terminal
15	Voltmeter change-over switch



Control module

Ref.	Description
a	Navigation button«» Accept (Configuration mode only)
b	Main status display
c	Stop/reset button«» Next page (Configuration mode only)
d	Auto start button«» Decrease value/next item (Configuration mode only)
e	Start button«» Increase value/next item (Configuration mode only)

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