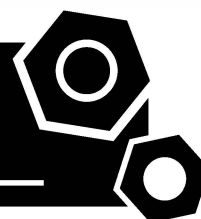


Generator set
Sound-proof type
WPS29D6S-EPA

SPECIFICATIONS



T3 series WPS29D6S-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

- 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 25 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

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

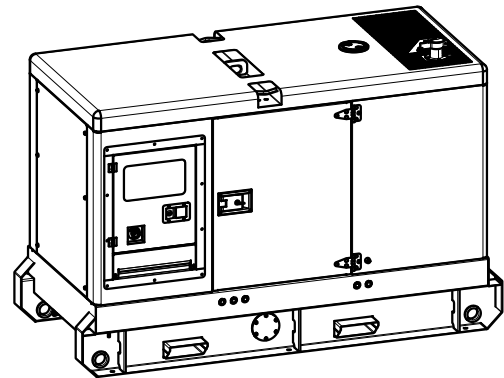
- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

2 General Features

- Perkins engine 404D-22TG
- Close coupled to Leroy-somer alternator LSA 42.3 VS2
- Microprocessor control module PLC-920
- ABB main circuit breaker: 100A
- 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/70AH sealed for life maintenance free battery

3 Equipment Specification

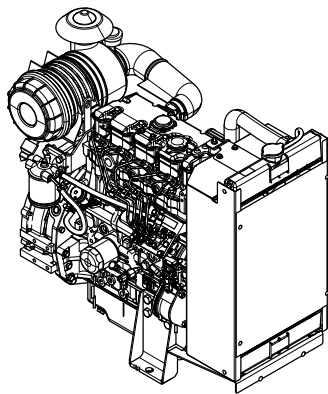
General technical data



Model.....WPS29D6S-EPA
Structure type R
Tank capacity..... 180L
Dry weight..... 1194kg
Noise level @7m68.3dBA
Dimensions L×W×H..... 2338x1180x1453mm
Standby Power 36kVA/29kW

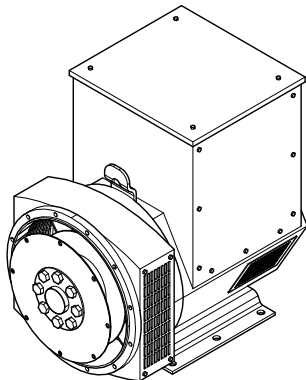
Voltage	208V	220V	230V	240V	
Ampere	80.5A	76.1A	72.8A	69.8A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
60Hz (L/h)	N/A	3.6	5.0	7.1	7.8

Diesel engine



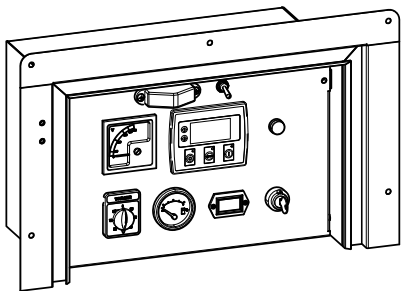
Engine Manufacturer/Brand.....	Perkins
Engine Model.....	404D-22TG
Dimensions L×W×H.....	915×520×840mm
Dry Weigh (approx.)	310kg
Number of Cylinders.....	4
Bore.....	84mm
Stroke	100mm
Displacement.....	2.216L
Compression Ratio	23.3
Type of injection.....	Indirect injection
Intake System.....	Turbocharged
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	10.6L
Type of Coolant	Glycol mixture
Coolant Capacity	7.0L
Back Pressure	≤10.2kPa
Standby Power	31.6kW
Fuel Consumption(100%load).....	241g/kWh

Alternator



Alternator Manufacturer/Brand	Leroy-somer
Alternator Model	LSA 42.3 VS2
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.....	0.06m³/s(50HZ),0.072m³/s(60HZ)
Voltage Regulation	±1.0%
Total harmonic TGH / THC at no load < 3 % - on load < 2%	
Telephone Interference.....	THF<2%;TIF<50

PLC-920 Control System

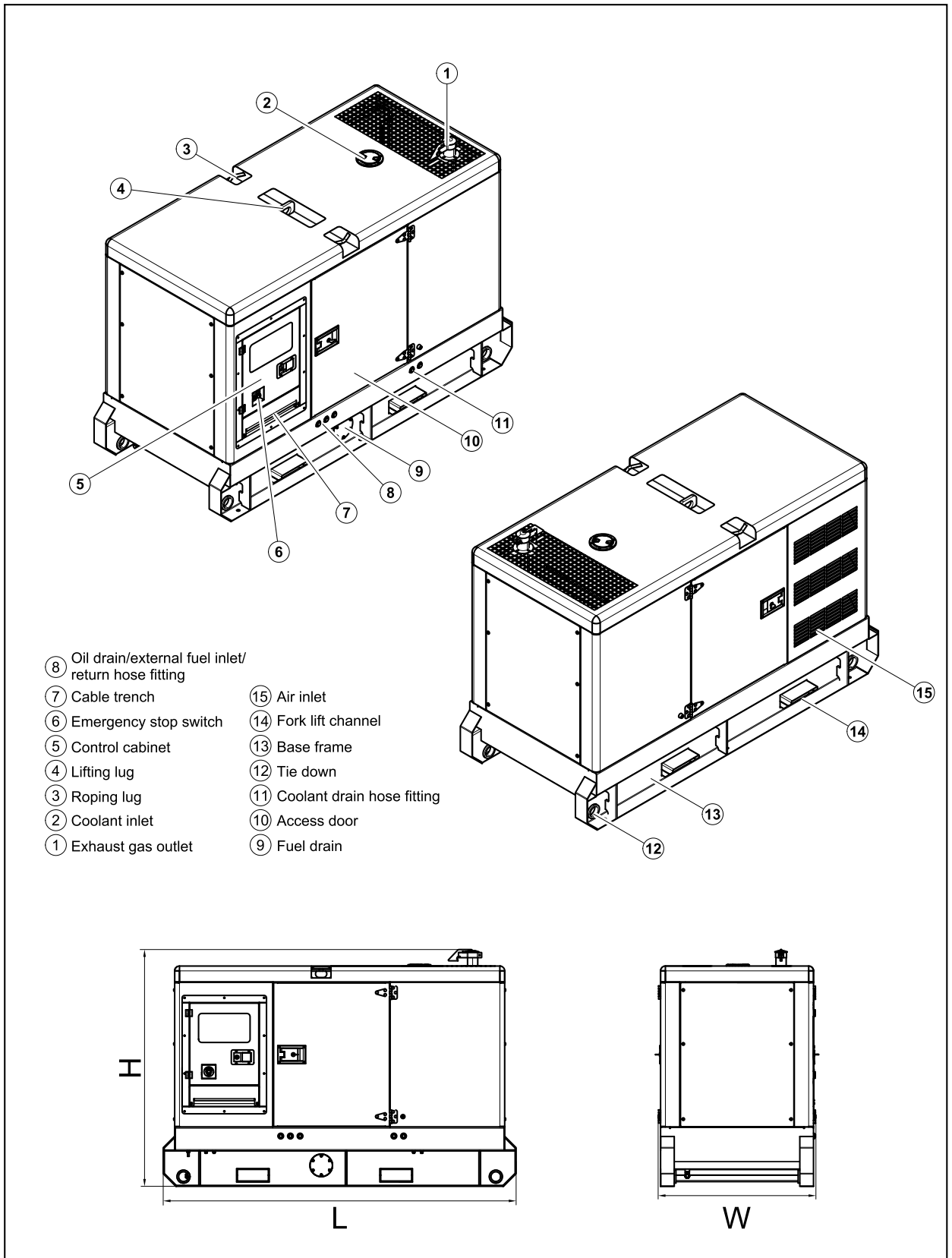


PLC-920 is an advanced control module based on micro-processor designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition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

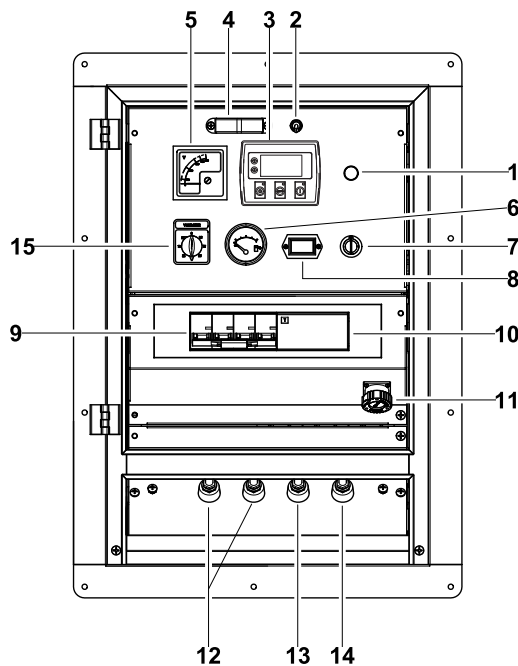
Standard Control Function

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

4 Overall Dimensions

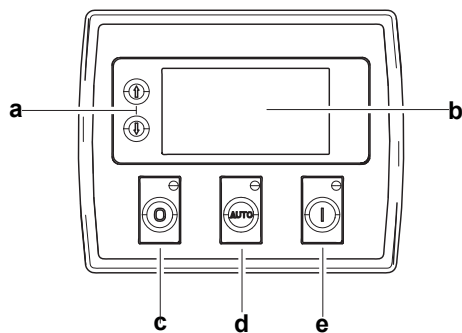


6 Control System



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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