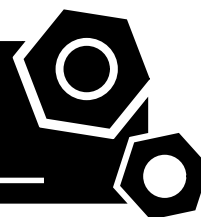


**Generator set**  
**Sound-proof type**  
**WPS30S**

# **SPECIFICATIONS**



## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (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 50°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.

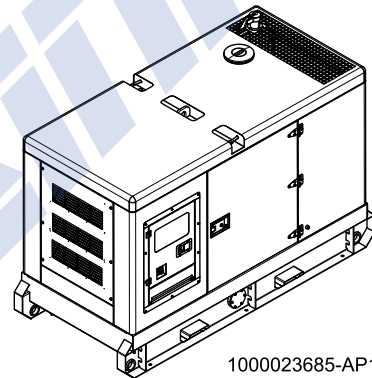
## 2 General Features

- Perkins engine 1103A-33G
- Close coupled to a MECC alternator ECP28-VL/4
- Microprocessor control module PLC-920
- SCHNEIDER main circuit breaker: 50A
- Rotate speed governor: Mechanical governor
- Excitation System: Self excited
- A.V.R.Model: DSR
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 1x12V/70AH 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 24 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

## 3 Equipment Specification

### General technical data

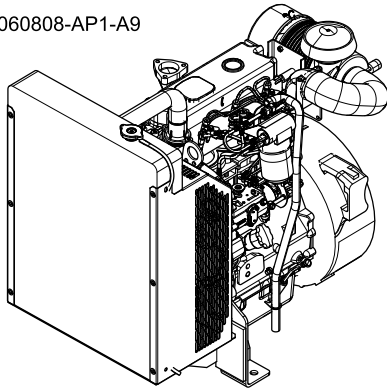


Model.....	WPS30S
Structure type .....	R
Tank capacity.....	165L
Dry weight.....	1282kg
Sound pressure level @7m.....	70dB(A)
Sound power acc. 2000/14/EC.....	97.9dB(A)
Dimensions L×W×H.....	2338×1080×1551mm
Standby Power .....	33kVA/26kW
Prime Power .....	30kVA/24kW

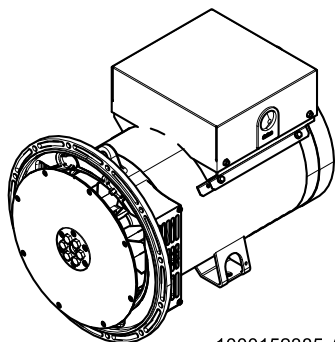
Voltage	380V	400V	415V	440V	
Ampere	45.6A	43.3A	41.7A	39.4A	
<b>Genset Fuel Consumption</b>					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	3.7	5.1	6.8	7.5

## Dck Yf 'GrghYa

1000060808-AP1-A9



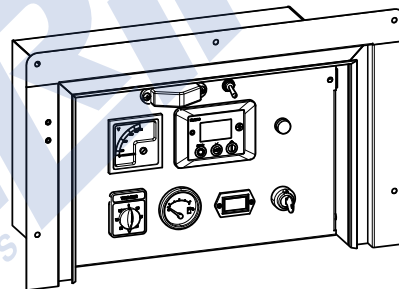
Engine Manufacturer/Brand .....	Perkins
Engine Model .....	1103A-33G
Dimensions L×W×H.....	1029×629×951mm
Dry Weigh (approx.) .....	412kg
Number of Cylinders.....	3
Bore.....	105mm
Stroke .....	127mm
Displacement.....	3.3L
Compression Ratio .....	19.25
Type of Injection .....	Direct injection
Intake System.....	Natural aspirated
Intake Resistance .....	≤6.5kPa
Cooling System .....	Water cooled
Fan .....	Pusher
Battery Voltage .....	12V
Type of Fuel.....	RF75-T-96 / DIN EN590 / BS2869 class A2
Type of Oil .....	API-CG4/ CH4
Oil Capacity .....	8.31L
Type of Coolant .....	Glycol mixture
Coolant Capacity .....	10.2L
Back Pressure .....	≤8kPa
Standby Power .....	31kW
Prime Power .....	28.2kW
Fuel Consumption(100%load).....	7.1L/h



1000152385-AP1-A1

Alternator Manufacturer/Brand .....	Mecc alte
Alternator Model .....	ECP28-LV/4
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.....	5.3m³/min(50Hz),5.8m³/min(60Hz)
Voltage Regulation .....	±1.0%
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<45

## PLC-920 Control System



1000094372-AP1-D5

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.

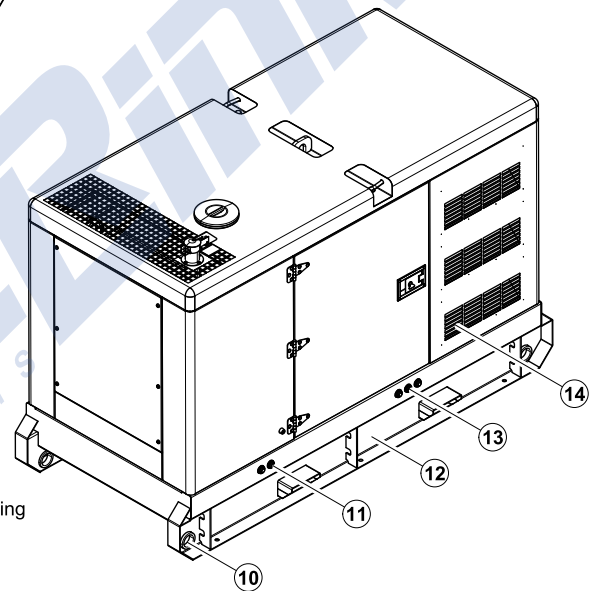
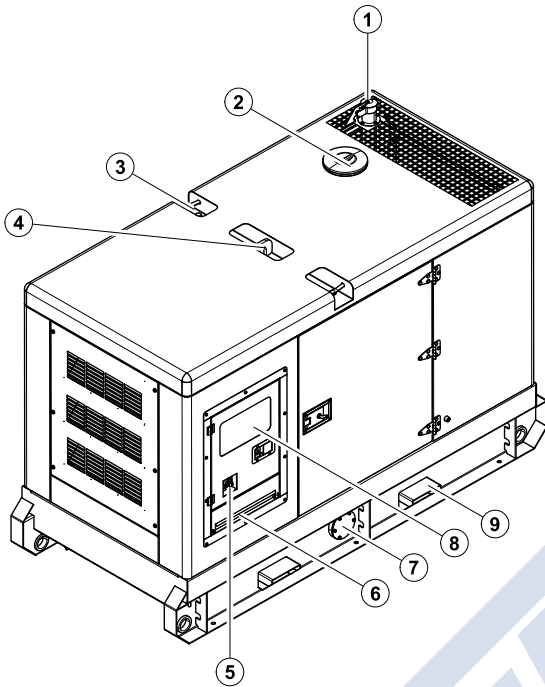
### Standard Control Function

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

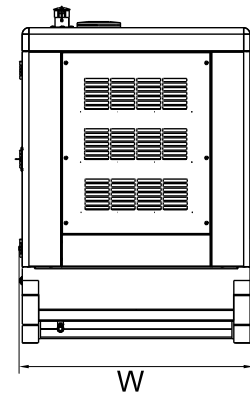
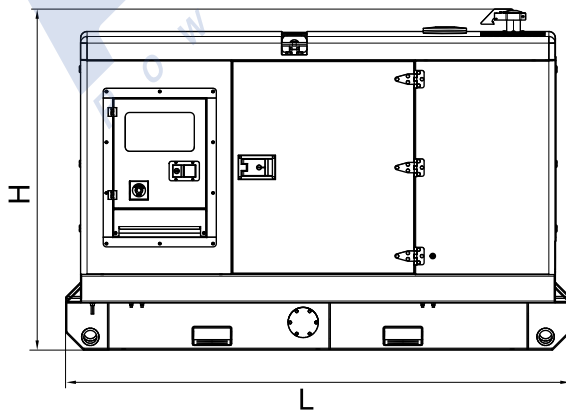
## 4 Overall Dimensions

1000023685-DR1-B2

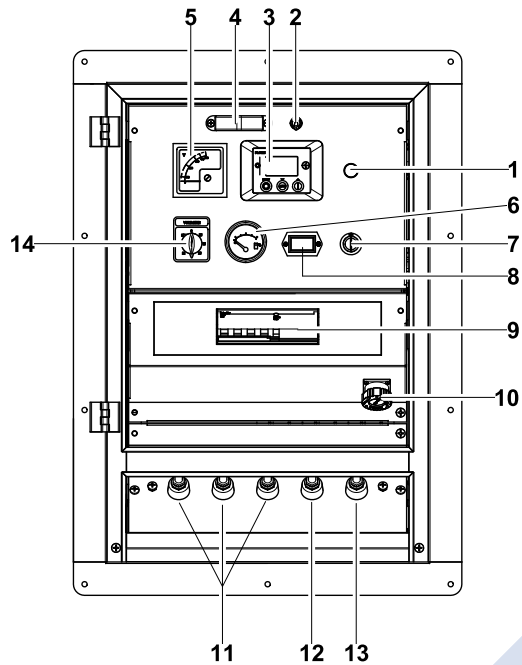
Dry weight	1282kg
Fuel tank capacity	165L
Dimensions L x W x H	2338x1080x1551mm



- ⑦ Fuel drain
- ⑧ Control cabinet
- ⑨ Fork lift channel
- ⑩ Tie down
- ⑪ External fuel inlet/return hose fitting
- ⑫ Base frame
- ⑬ Coolant/oil drain hose fitting
- ⑭ Air inlet
- ① Exhaust gas outlet
- ② Coolant inlet
- ③ Roping lug
- ④ Lifting lug
- ⑤ Emergency stop switch
- ⑥ Cable trench

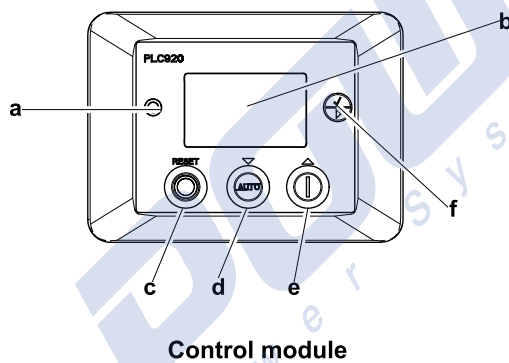


## 5 Control System



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	Mains input /ATS /Remote communication connector
11	Live wire terminal
12	Neutral wire terminal
13	Ground wire terminal
14	Voltmeter change-over switch

Control & field wiring cabinet



Control module

Ref.	Description
a	Alarm indicator
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)
f	Navigation button; Accept (Configuration mode only)

1000023685-B2-E
-----------------

03.2014
---------

**POWERLINK**<sup>®</sup>  
Power Systems

<http://www.powerlinkworld.com>

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