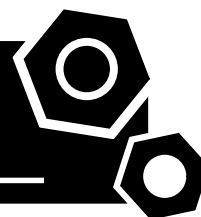


**Generator set**  
**Sound-proof type**  
**WPS30S**

# **SPECIFICATIONS**



## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- China Compulsory Certification (CCC)
- TLC Quality Certification (TLC)
- ISO8528-1995
- GB/T2820-1997

### 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 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.

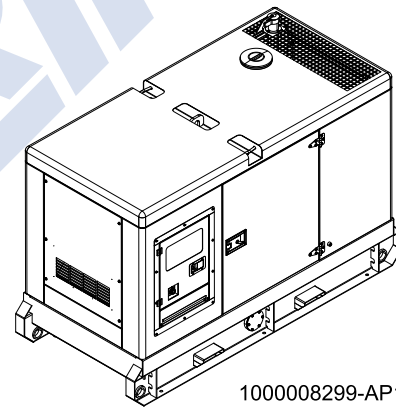
## 2 General Features

- Perkins engine 1103A-33G
- Close coupled to a Leroy Somer alternator LSA42.2L9
- Microprocessor control module PLC-702
- NADER main circuit breaker: 3-Phase 63A
- Rotate speed governor: Mechanical governor
- Excitation system: Self excited , SHUNT
- A.V.R model: R250
- Key switch

- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 1x12V sealed for life maintenance free battery
- Lockable battery isolator switch
- Power 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 / Parts List/ Specifications

## 3 Equipment Specification

### General technical data



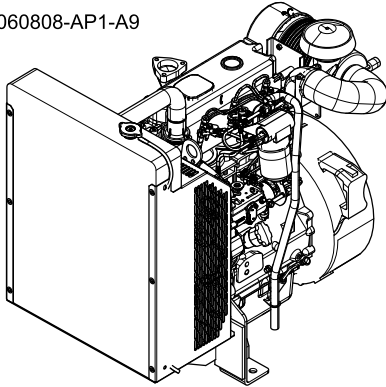
1000008299-AP1-B6

Model.....	WPS30S
Structure type .....	R
Tank capacity.....	180L
Dry weigh.....	1293kg
Noise level @7m .....	67dBA
Dimensions L×W×H.....	2338x1080x1560.5mm
Standby Power .....	33kVA/26.4kW
Prime Power .....	30kVA/24kW

Voltage	380V	400V	415V	440V
Ampere	45.6A	43.3A	41.7A	39.4A

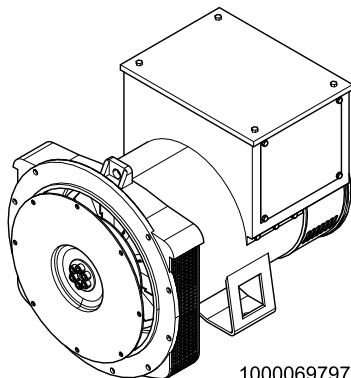
## Diesel Engine

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
Continuous Power .....	28.2kW
Fuel Consumption(100%load).....	7.1L/h

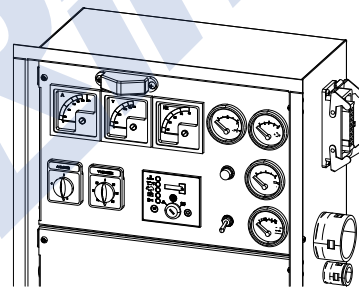
## Alternator



1000069797-AP1-A5

Alternator Manufacturer/Brand .....	Leroy Somer
Alternator Model .....	LSA42.2L9
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.....	0.15m³/s
Voltage Regulation .....	±0.5%
Total harmonic TGH / THC .....	< 4%
Telephone Interference.....	THF<2%;TIF<50

## PLC-702 Control System



1000103790-AP1-B2

PLC-702 key manual start module is a manual engine control module 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.

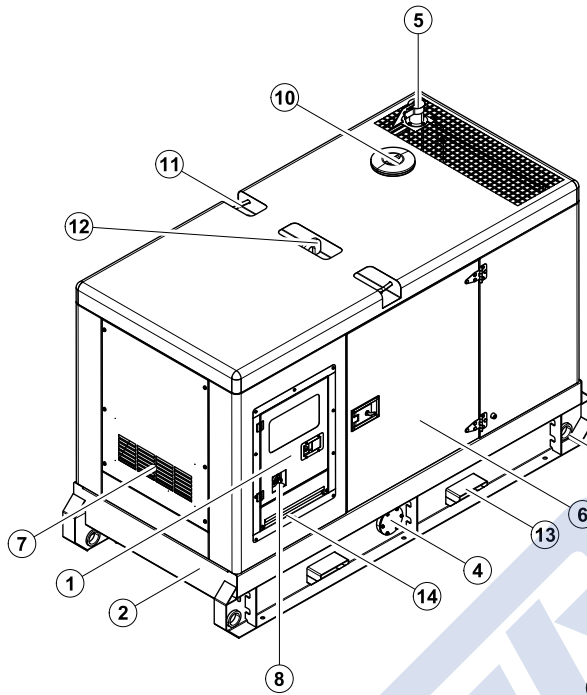
### Standard Control Function

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

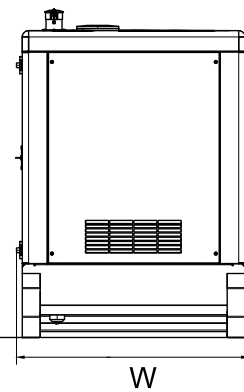
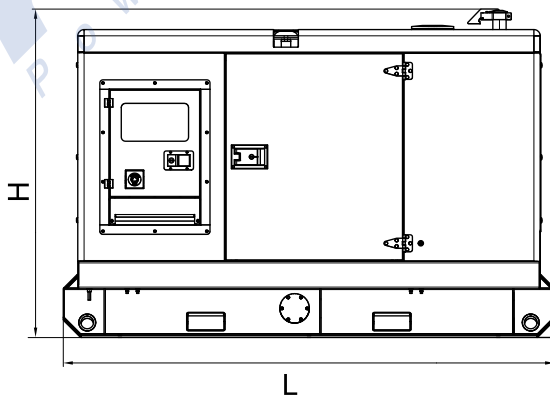
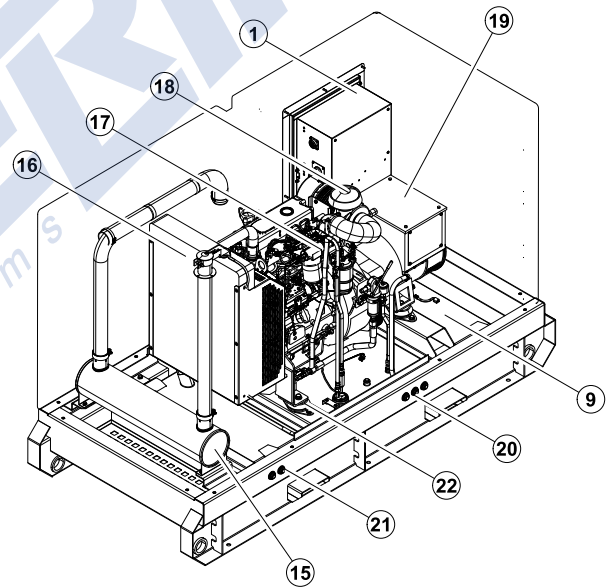
## 4 Overall Dimensions

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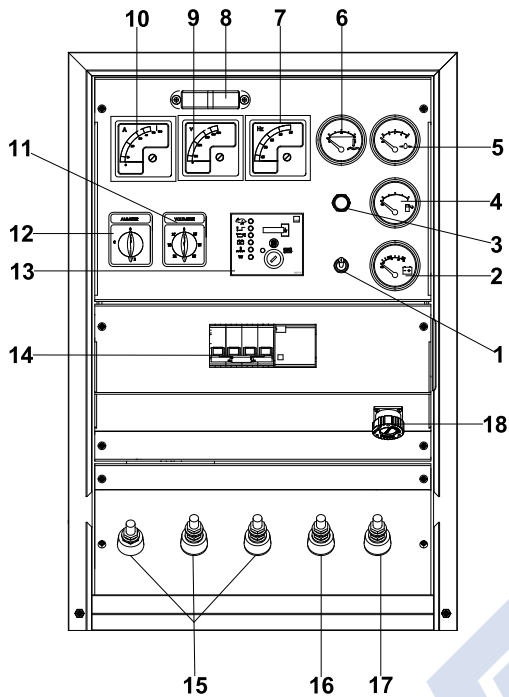
Dry weight	1293kg
Fuel tank capacity	180L
Dimensions L x W x H	2338x1080x1560.5mm



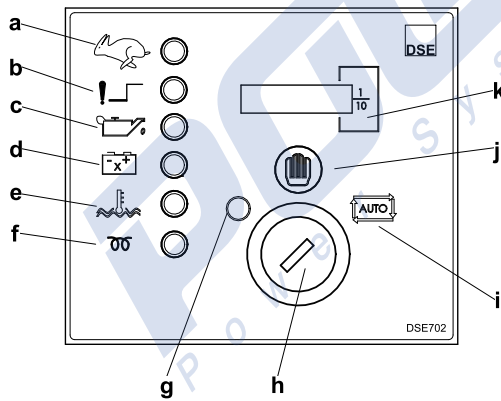
- ⑪ Roping lug
- ⑩ Coolant inlet
- ⑨ Fuel tank
- ⑧ Emergency stop switch
- ⑦ Air inlet
- ⑥ Access door
- ⑤ Exhaust gas outlet
- ④ Fuel drain
- ③ Tie down
- ② Base frame
- ① Control cabinet
- ⑫ Lifting lug
- ⑬ Fork lift channel
- ⑭ Cable trench
- ⑮ Muffler
- ⑯ Alternator
- ⑰ Engine
- ⑱ Air cleaner
- ⑲ Alternator
- ⑳ Coolant/Oil drain hose fitting
- ㉑ External fuel inlet/return hose fitting
- ㉒ Vibration isolator



## 5 Control System



Control & field wiring cabinet



Control panel

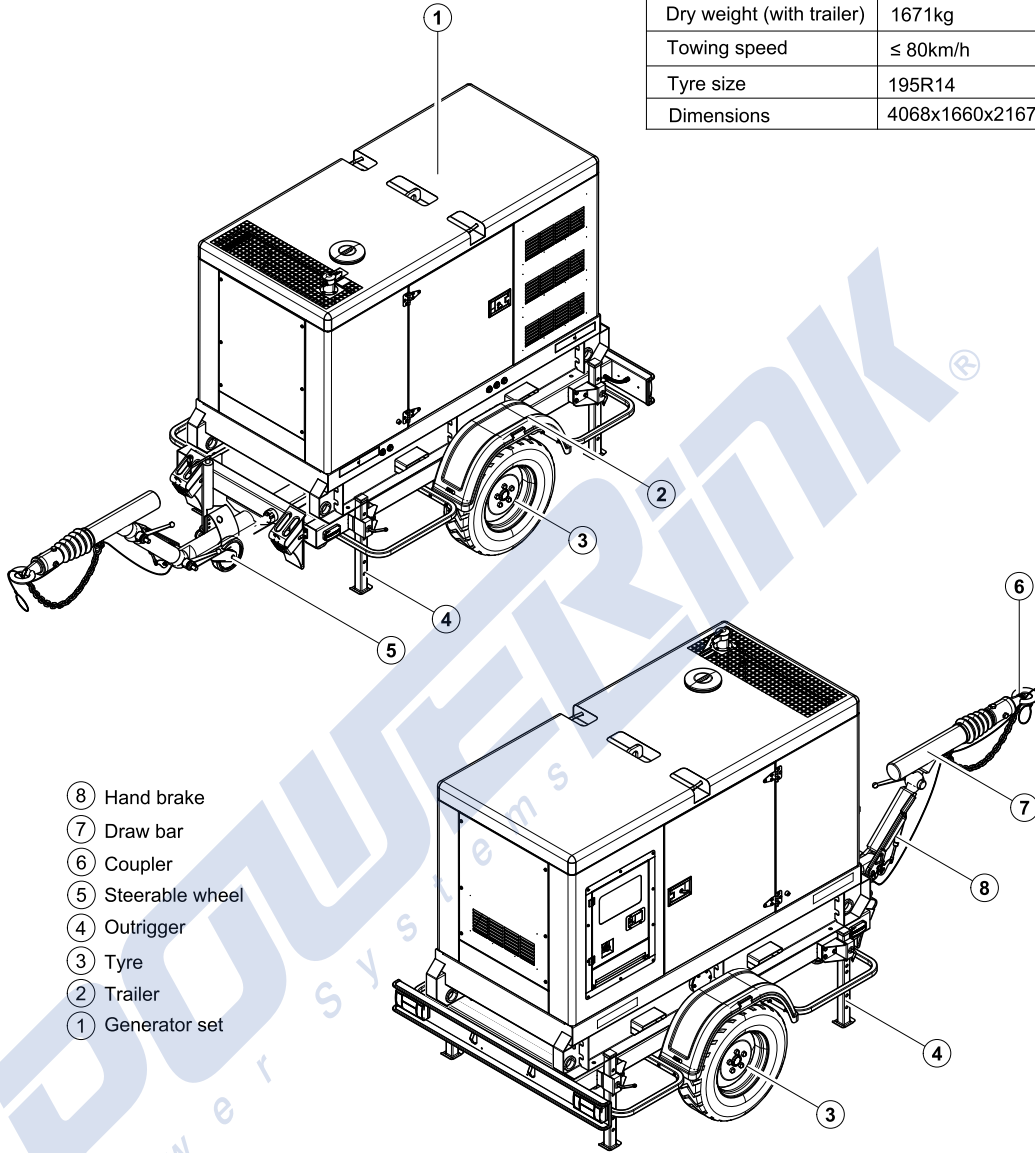
Ref.	Description
1	Control cabinet lamp switch
2	Battery voltage meter
3	Charge indicator
4	Fuel level meter
5	Oil pressure meter
6	Water temperature meter
7	Frequency meter
8	Control cabinet lamp
9	Voltage meter
10	Current meter
11	Voltmeter change-over switch
12	Ammeter change-over switch
13	Control module
14	Main circuit breaker
15	Live wire terminals
16	Neutral wire terminal
17	Ground wire terminal
18	ATS connector

a	Over speed protection LED
b	Alarm LED
c	Low oil pressure protection LED
d	Charge failure warning LED
e	High engine temperature protection LED
f	Pre-heat LED
g	Stop model position
h	Control module key switch
i	Auto start position
j	Manual start button
k	Time counter

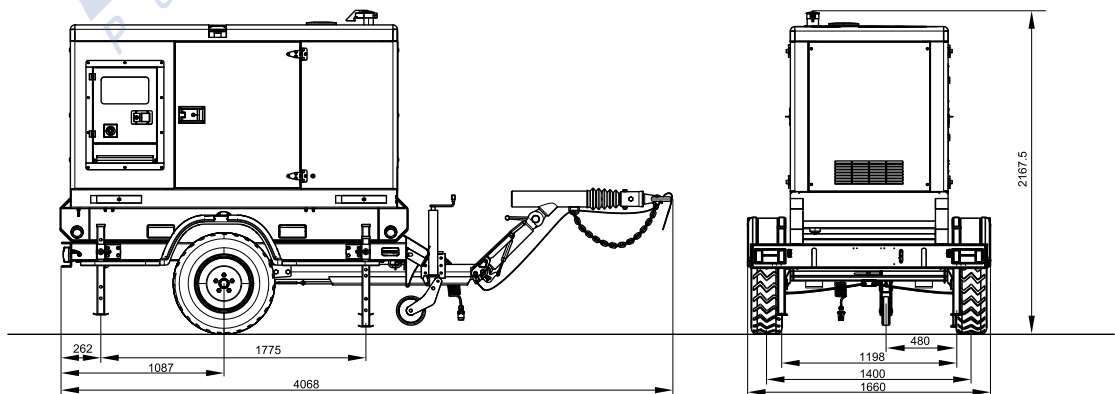
## 6 Trailer(Optional)

1000008299-DR3-B6

Dry weight (with trailer)	1671kg
Towing speed	≤ 80km/h
Tyre size	195R14
Dimensions	4068x1660x2167.5mm



- ⑧ Hand brake
- ⑦ Draw bar
- ⑥ Coupler
- ⑤ Steerable wheel
- ④ Outrigger
- ③ Tyre
- ② Trailer
- ① Generator set



1000008299-B6-E
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12.2010
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P o w e r S y s t e m s

**Power Link Machine Co., Ltd.**

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