

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance European (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.

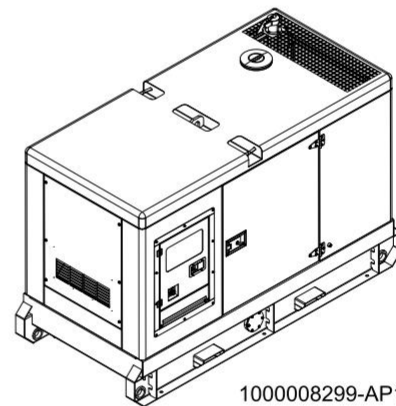
2 General Features

- 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

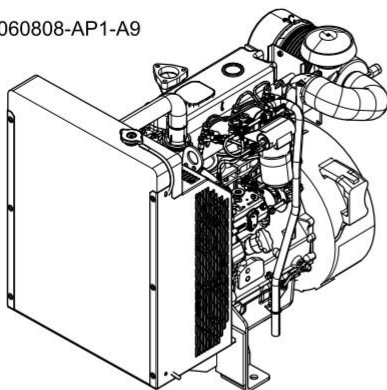


Model.....P30D5
Structure type R
Tank capacity.....180L
Dry weigh..... 1293kg
Noise level @7m67dBA
Dimensions L×W×H..... 2338x1080x1560.5mm
Standby Power 33kVA/26.4kW
Prime Power 30kVA/24kW

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

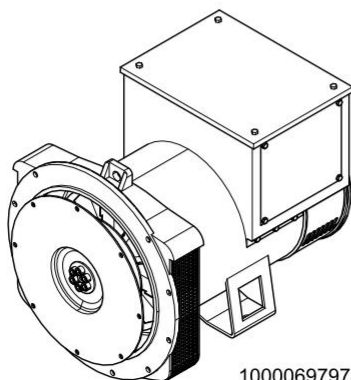
Diesel Engine

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

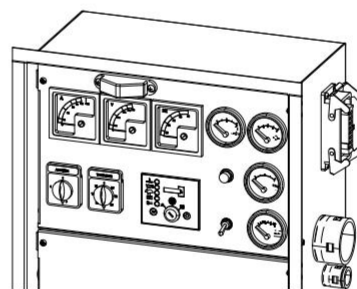
Alternator



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

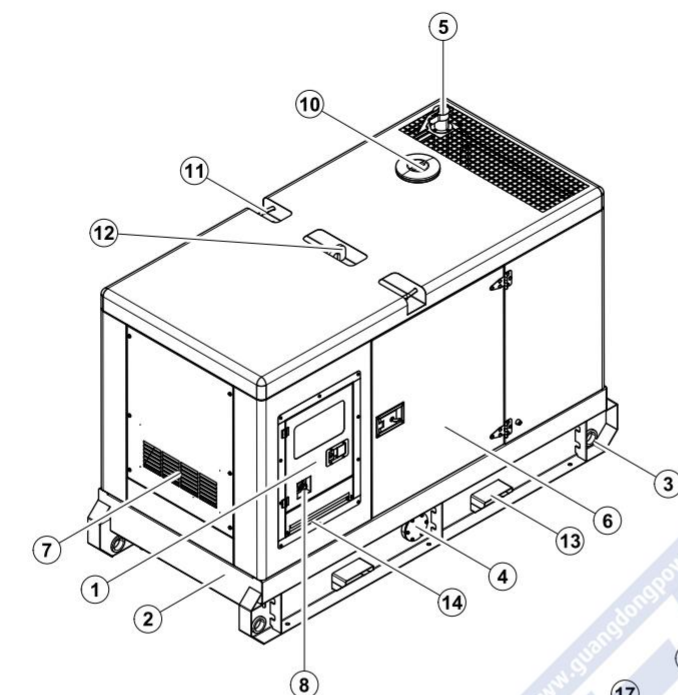
PLC-702 key manual start module is a manual engine control module designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault 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

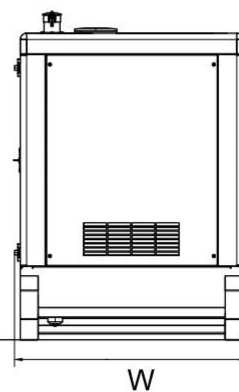
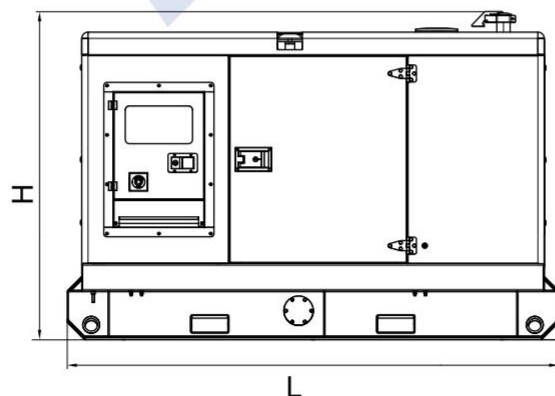
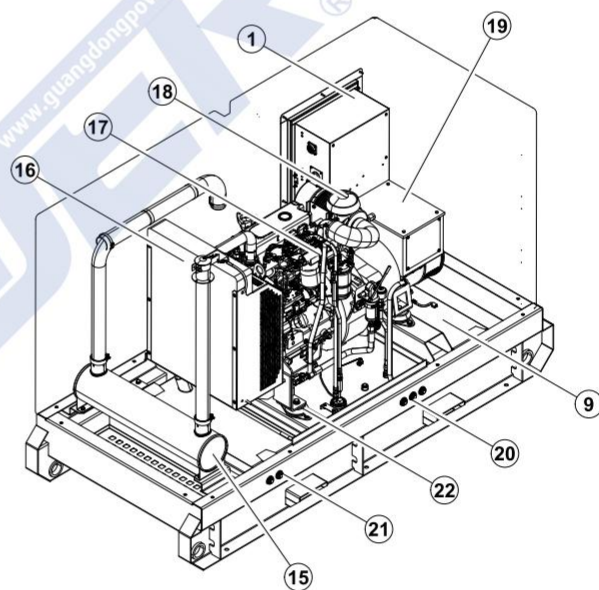
4 Overall Dimensions

1000008299-DR1-B6



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

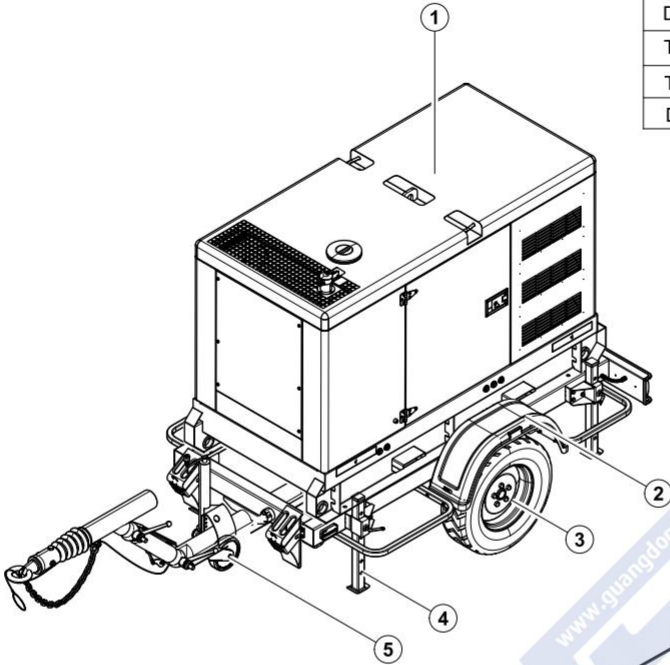
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|-------------------------|---|
| ⑪ Roping lug | ⑫ Vibration isolator |
| ⑩ Coolant inlet | ⑬ External fuel inlet/return hose fitting |
| ⑨ Fuel tank | ⑭ Coolant/Oil drain hose fitting |
| ⑧ Emergency stop switch | ⑮ Alternator |
| ⑦ Air inlet | ⑯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



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

