

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 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.

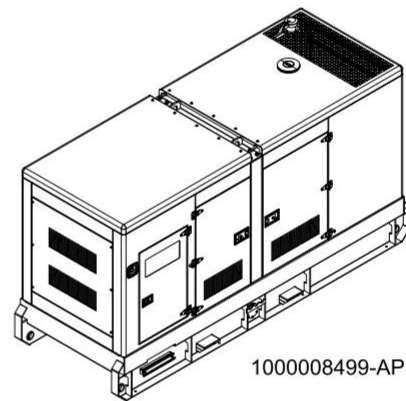
2 General Features

- Perkins engine 1306C-E87TAG6
- Close coupled to a Leroy Somer alternator LSA46.2L6
- Microprocessor control module PLC-702
- NADER main circuit breaker: 400A
- Rotate speed governor: Electronic fuel injection governor
- Excitation system: Self excited , SHUNT
- A.V.R model: R250
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 2x12V/120AH 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 forkslots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank with 10 hours running
- Drain points for fuel tank
- Operator's Manual / Specifications

3 Equipment Specification

General technical data

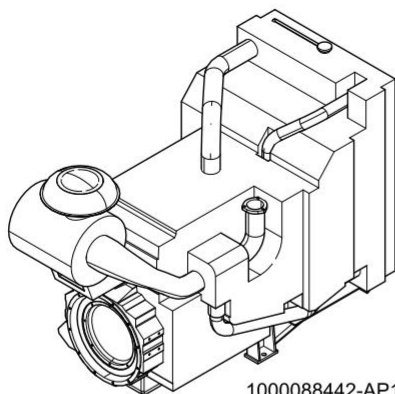


1000008499-AP1-C3

Model.....P250D5
 Structure type R
 Tank capacity.....470L
 Dry weigh.....3139kg
 Noise level @7m 70.6dBA
 Dimensions L×W×H.....3662×1353×2000mm
 Standby Power 260kVA/208kW
 Prime Power 250kVA/200kW

Voltage	380V	400V	415V	440V	
Ampere	379.8A	360.9A	347.8A	328.1A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	24.0	36.0	45.0	49.7

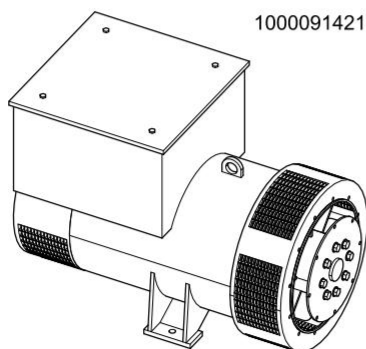
Diesel Engine



1000088442-AP1-A3

Engine Manufacturer/Brand.....	Perkins
Engine Model.....	1306C-E87TAG6
Dimensions L×W×H.....	1822×875×1369mm
Dry Weigh (approx.)	671kg
Number of Cylinders.....	6
Bore.....	116.6mm
Stroke	135.9mm
Displacement.....	8.7L
Compression Ratio	16.9
Type of injection.....	Direct injection
Intake System.....	Turbocharged, air-to-air charge cooled
Intake Resistance.....	≤ 6.22kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12/24V
Type of Fuel.....	EPA 2D 89.330-96
Type of Oil	API-CH-4, API-CG-4 or ACEA E3
Oil Capacity	28.3L
Type of Coolant	Glycol mixture
Back Pressure	≤10.7kPa
Standby Power	246kW
Prime Power	224kW
Fuel Consumption(100%load).....	56.9L/h

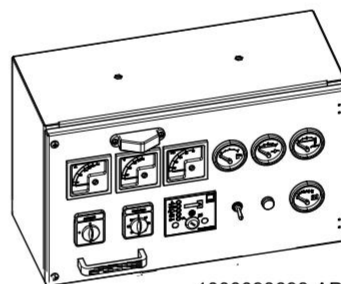
Alternator



1000091421-AP1-A2

Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA46.2L6
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.....	0.43m³/s(50Hz), 0.51m³/s(60Hz)
Voltage Regulation	±0.5%
Total harmonic TGH / THCno load < 2.5 % - on load < 2.5%	
Telephone Interference.....	THF<2%;TIF<50

PLC-702 Control System



1000093698-AP1-B2

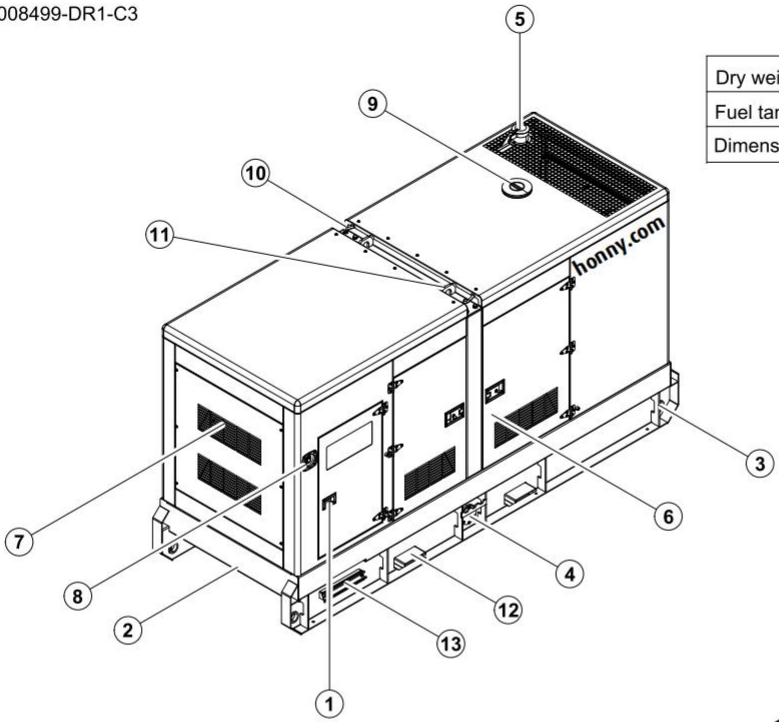
PLC-702 key manual start module is a manual engine control module designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault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

1000008499-DR1-C3



Dry weight	3139kg
Fuel tank capacity	470L
Dimensions L x W x H	3662x1353x2000mm

- 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
- ⑬ Coolant drain hose fitting
- ⑫ Oil drain hose fitting
- ⑪ External fuel inlet/return hose fitting
- ⑩ Cable trench
- ⑨ Fork lift channel
- ⑧ Lifting lug
- ⑦ Roping lug
- ⑥ Coolant inlet

