

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.

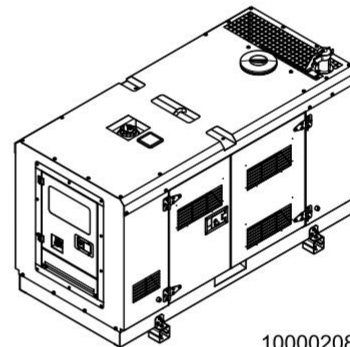
2 General Features

- Perkins engine 403D-15G
- Close coupled to a Leroy Somer alternator LSA40VS2
- Microprocessor control module PLC-702
- SCHNEIDER main circuit breaker: 3-Phase 20A
- Rotate speed governor: Mechanical governor
- Excitation System: SHUNT
- A.V.R. model: R220
- Key switch

- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 1x12V 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 forklift slots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 11 hours running
- Drain points for fuel tank
- Operation Manual / Parts List/ Specifications

3 Equipment Specification

General technical data

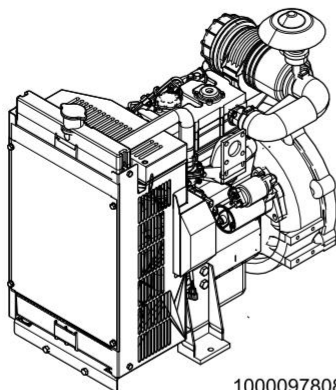


1000020899-AP1-A9

Model.....P13D5
 Structure typeRS
 Tank capacity.....50L
 Dry weigh.....641kg
 Noise level @7m54.6dBA
 Dimensions L×W×H.....1800×850×1208mm
 Standby Power14kVA/11kW
 Prime Power13kVA/10kW

Voltage	380V	400V	415V
Ampere	20A	19A	18A

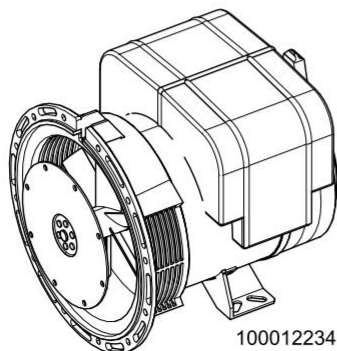
Diesel Engine



1000097808-AP1-B2

Engine Manufacturer/Brand.....	Perkins
Engine Model.....	403D-15G
Dimensions L×W×H.....	820×476×791mm
Dry Weigh (approx.)	197kg
Number of Cylinders.....	3
Bore.....	84mm
Stroke	90mm
Displacement.....	1.496L
Compression Ratio.....	22.5
Type of Injection	Indirect injection
Intake System.....	Natural aspirated
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	6.0 L
Type of Coolant	Glycol mixture
Coolant Capacity	6.0L
Back Pressure	≤10.2kPa
Standby Power	13.5kW
Continuous Power	12.2kW
Fuel Consumption(100%load).....	264g/kWh

Alternator

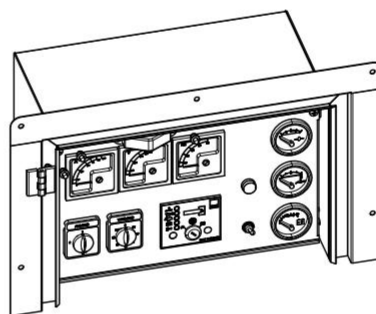


1000122348-AP1-A2

Alternator Manufacturer/Brand.....	Leroy Somer
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Alternator Model	LSA40VS2
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-702 Control System



1000093953-AP1-A2

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

1000020899-DR1-A9

Dry weight	641Kg
Fuel tank capacity	50L
Dimensions LxWxH	1800x850x1208mm

