

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.

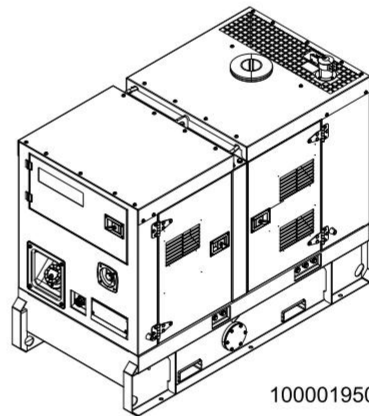
2 General Features

- Perkins engine 403D-11G
- Close coupled to a Leroy Somer alternator LSA42.2VS0
- Microprocessor control module PLC-702
- NADER main circuit breaker: 3-Phase 16A
- 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
- 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 8 hours running
- Drain points for fuel tank
- Operation Manual / Parts List/ Specifications

3 Equipment Specification

General technical data

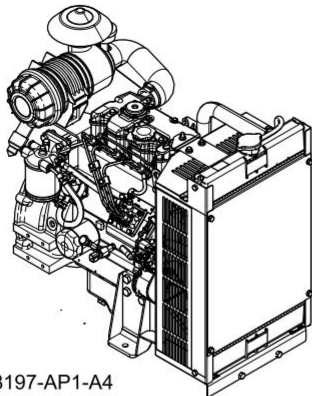


1000019501-AP1-B7

Model.....P10D5
Structure typeRS
Tank capacity.....90L
Dry weigh.....621kg
Noise level @7m60dBA
Dimensions L×W×H.....1632x800x1200mm
Standby Power11kVA/9kW
Prime Power10kVA/8kW

Voltage	380V	400V	415V	440V
Ampere	15.2A	14.4A	13.9A	13.1A

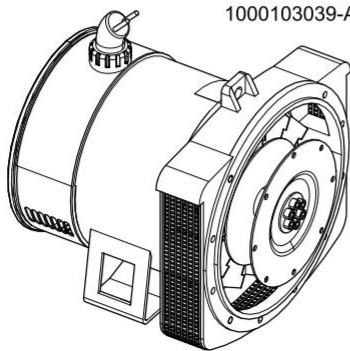
Diesel Engine



1000078197-AP1-A4

Engine Manufacturer/Brand	Perkins
Engine Model	403D-11G
Dimensions L×W×H	776×449×700mm
Dry Weigh (approx.)	129.2kg
Number of Cylinders	3
Bore	77mm
Stroke	81mm
Displacement	1.13L
Compression Ratio	23
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	4.9L
Type of Coolant	Glycol mixture
Coolant Capacity	5.2L
Back Pressure	≤10.2kPa
Standby Power	9.5kW
Continuous Power	8.6kW
Fuel Consumption(100%load)	252g/kWh

Alternator

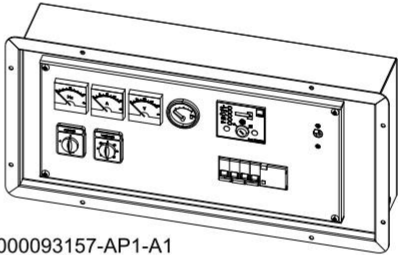


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Alternator Manufacturer/Brand	Leroy Somer
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Alternator Model	LSA42.2VS0
Exciter	Brushless
Cooling Fan	Cast alloy aluminum
Windings	100% copper
Insulation Class	H
Winding Pitch	2/3
Terminals	12
Drip 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



1000093157-AP1-A1

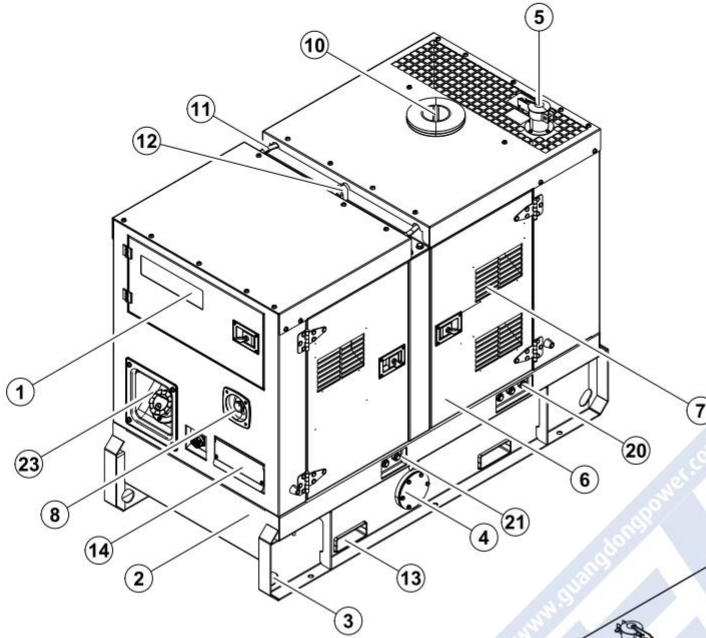
PLC-702 key manual start module is a manual engine control module designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault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

1000019501-DR1-B7



Dry weight	621kg
Fuel tank capacity	90L
Dimensions L x W x H	1632x800x1200mm

- 12 Lifting lug
- 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
- 23 Fuel inlet
- 22 Vibration isolator
- 21 External fuel inlet/return hose fitting
- 20 Coolant/Oil drain hose fitting
- 19 Alternator
- 18 Air cleaner
- 17 Engine
- 16 Radiator
- 15 Muffler
- 14 Cable trench
- 13 Fork lift channel

