

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance European (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 50°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.

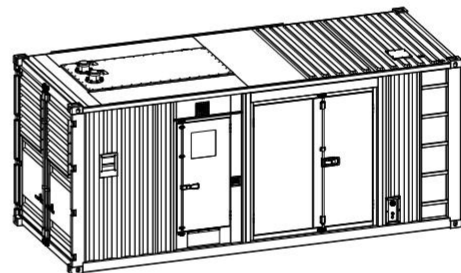
2 General Features

- Perkins engine 4006-23TAG3A
- Close coupled to a Leroy Somer alternator LSA49.1M6
- Microprocessor control module PLC-7420
- DMA main circuit breaker: 1250A
- Rotate speed governor: Electronic governor
- Excitation System: AREP
- A.V.R.Model: R448
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 4x12V/150AH 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 lifting lugs
- 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 / Specifications

3 Equipment Specification

General technical data

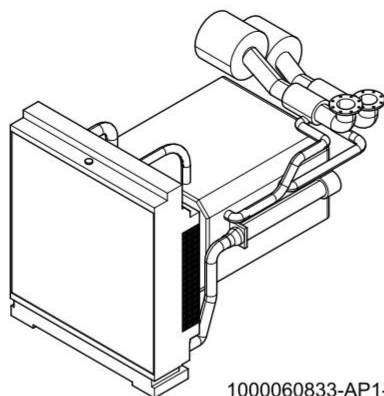


1000020480-AP1-C4

Model.....P800D5
Structure type C
Tank capacity.....1450L
Dry weight..... 11379.5kg
Noise level @7m N/A
Sound power level acc. 2000/14/EC N/A
Dimensions L×W×H.....6058×2438×2591mm
Standby Power 880kVA/704kW
Prime Power 800kVA/640kW

Voltage	380V	400V	415V	440V	
Ampere	1216A	1155A	1113A	1050A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	85.5	123.5	163.4	184.3

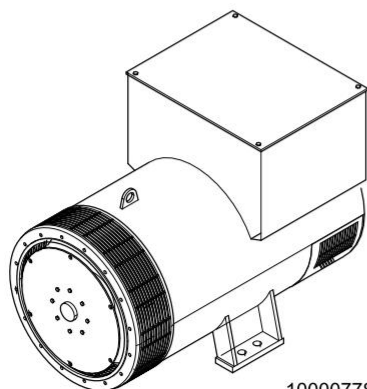
Diesel Engine



1000060833-AP1-B2

Engine Manufacturer/Brand.....	Perkins
Engine Model.....	4006-23TAG3A
Dimensions L×W×H.....	3027×1706×1964mm
Dry Weigh (approx.)	2524kg
Number of Cylinders.....	6
Bore.....	160mm
Stroke	190mm
Displacement.....	22.92L
Compression Ratio.....	13.6
Type of Injection	Direct injection
Intake System.....	Turbocharged air-to-air charge cooled
Intake Resistance.....	≤3.7kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel.....	BS2869 1998 Class A1, A2
Type of Oil	API CG4 15W/40
Oil Capacity	113.4L
Type of Coolant	Glycol Mixture
Coolant capacity.....	105L
Back Pressure	≤6.0kPa
Standby Power	786kW
Prime Power	705kW
Fuel Consumption(100%load).....	210g/kW.h

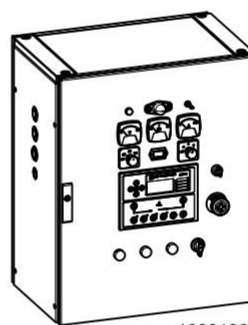
Alternator



1000077860-AP1-A1

Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA49.1M6
Exciter.....	Brushless
Cooling Fan	Cast alloy aluminum
Windings.....	100% copper
Insulation Class	H
Winding Pitch.....	2/3
Terminals	6
Drip Proof	IP23
Altitude.....	≤1000m
Overspeed	2250rpm
Air Flow.....	1m³/s(50Hz), 1.2m³/s(60Hz)
Voltage Regulation	±0.5%
Total harmonic TGH / THC at no load < 4 % - on load < 4%	
Telephone Interference.....	THF<2%;TIF<50

PLC-7420 Control System



1000196956-AP1-A4

PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and display all values and alarms information on the LCD. In addition, the control module can automatically shut down the engine and indicate the engine failure.

- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, automatic and remote work mode selectable
- Real time clock for time and date display, overall runtime display, 250 log entries
- Overall power output display
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed etc.
- Communication with PC via RS485 OR RS232 interface, using MODBUS protocol

4 Overall Dimensions

1000020480-DR1-C4

Dry weight	11379.5kg
Fuel tank capacity	1450L
Dimensions L x W x H	6058x2438x2591mm

