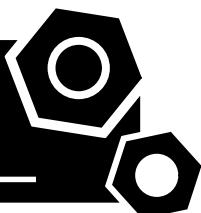


**Generator set**  
**Sound-proof type**  
**WPS10S-AU**

## **SPECIFICATIONS**



## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- China Compulsory Certification (CCC)
- ISO8528-5:2005
- GB/T2820.5-2009
- AS 3000-1997
- AS 3010.1-1988

- 1x three-phase convenience receptacle
- 1x12V/72AH sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Oil pump on the engine
- Non-returning valve for fuel inlet hose of 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 24 hours running
- Drain points for fuel tank
- Breather valve for fuel tank
- Operation Manual / Specifications

### 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 90%.
- 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

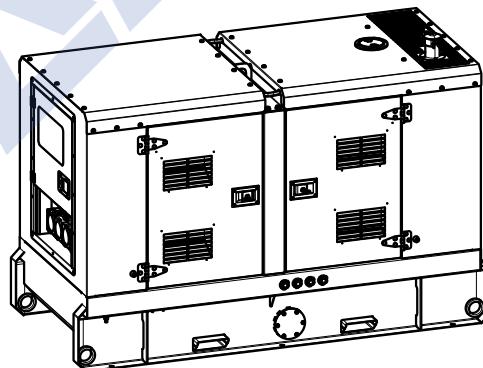
- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

## 2 General Features

- Perkins engine 403D-11G
- Close coupled to a Leroy Somer alternator LSA40VS1
- Microprocessor control module PLC-7420
- SCHENIDER main circuit breaker: 16A
- Rotate speed governor: Mechanical governor
- Excitation System: Self Excited,SHUNT
- A.V.R model: R220
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- Remote run connector
- 3x single-phase convenience receptacle

## 3 Equipment Specification

### General technical data

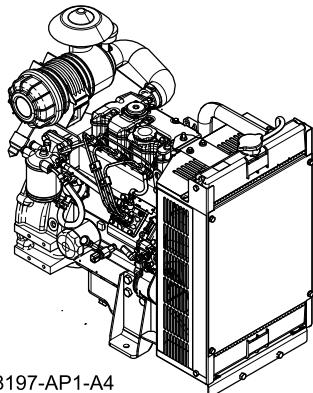


1000020918-AP1-E4

Model.....	WPS10S-AU
Structure type .....	R
Tank capacity.....	100L
Dry weight.....	651kg
Sound pressure level @7m .....	64dB(A)
Sound power acc. 2000/14/EC .....	91.9dB(A)
Dimensions LxWxH.....	1932x881x1308mm
Standby Power .....	11kVA/9kW
Prime Power .....	10kVA/8kW
Voltage/Ampere .....	415V/13.9A

Genset Fuel Consumption						
Frequency/Load	25%	50%	75%	100%	110%	
50Hz (L/h)	N/A	1.5	2.0	2.6	2.9	

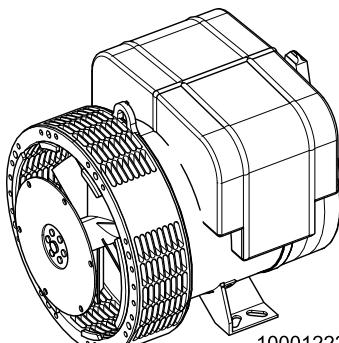
## Diesel Engine



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
Prime Power .....	8.6kW
Fuel Consumption(100%load) .....	252g/kWh

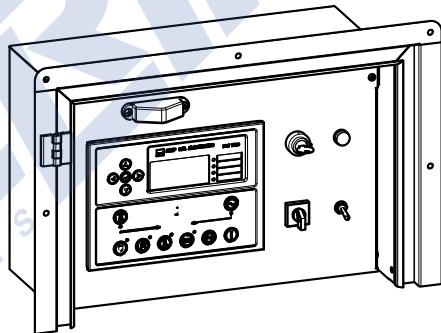
## Alternator



1000122351-AP1-A1

Alternator Manufacturer/Brand .....	Leroy Somer
Alternator Model .....	LSA40VS1
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-7420 Control System



1000103865-AP1-D5

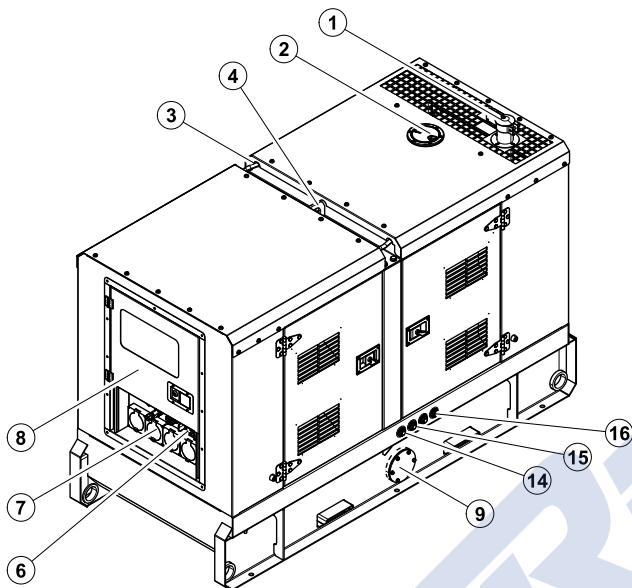
PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and 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

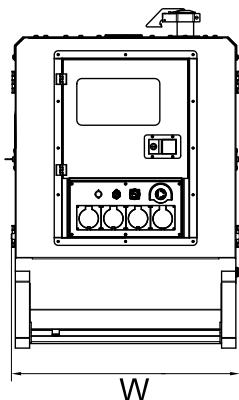
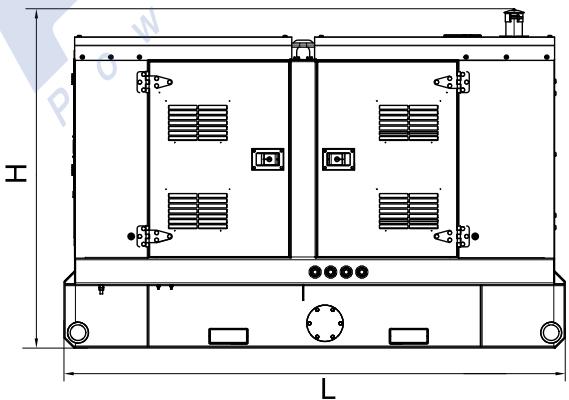
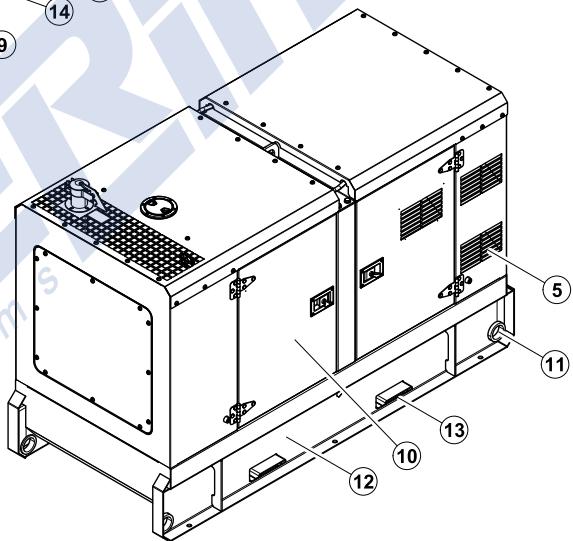
## 4 Overall Dimensions

1000020918-DR1-E4

Dry weight	651kg
Fuel tank capacity	100L
Dimensions L x W x H	1932x881x1308mm



- (8) Control cabinet
- (16) Coolant drain hose fitting
- (7) Convenient socket
- (15) Oil drain hose fitting
- (6) Emergency stop switch
- (14) External fuel inlet/return hose fitting
- (5) Air inlet
- (13) Fork lift channel
- (4) Lifting lug
- (12) Base frame
- (3) Roping lug
- (11) Tie down
- (2) Coolant inlet
- (10) Access door
- (1) Exhaust gas outlet
- (9) Fuel drain



## 5 Control System

Ref.	Description
1	Mains input changeover switch
2	Control cabinet lamp switch
3	Charge indicator
4	Key switch
5	Control module
6	Control cabinet lamp
7	Main circuit breaker
8	Mains input/ Remote control communication connector
9	3x single-phase convenience receptacle
10	1x three-phase convenience receptacle
11	Mains input/Remote control/ ATS communication connector
12	Emergency stop switch

a	Button (next page)
b	Button (increase value / previous item)
c	Button (accept)
d	Button (previous page)
e	Button (decrease value / next item)
f	Button (transfer the load to the mains supply, when in Manual mode only)
g	Mains supply available LED
h	Stop / Reset button
i	Manual button (Manual control mode)
j	Mains supply on load LED
k	Test button (Test mode)
l	Auto button (Auto mode)
m	Genset on load LED
n	Mute/Lamp test button
o	Start button (Manual)
p	Genset available LED
q	Button (transfer the load to the genset, when in Manual mode only)
r	Alarm LED (4 alarm items)
s	LCD display
t	Control module name

1000103865-IT1-D5

1000020918-E4-E

05.2013



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