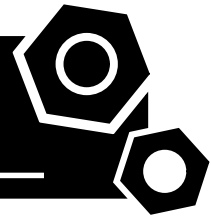


**Generator set**  
**Containerized type**  
**WPS725S-AU**

# **SPECIFICATIONS**



## 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
- AS 3000-1997
- AS 3010.1-1988

### 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 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.

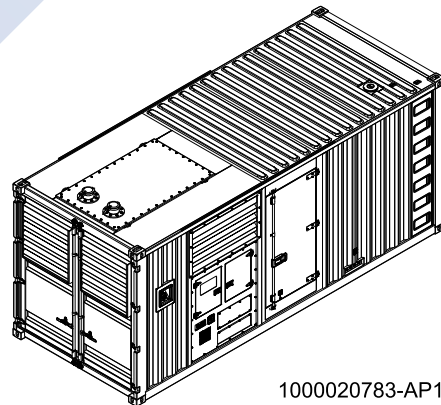
## 2 General Features

- Perkins engine 4006-23TAG3A
- Close coupled to a Leroy Somer alternator LSA49.1M6
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 3-Phase 1250A
- Rotate speed governor: Electronic fuel injection governor
- Excitation System: AREP
- A.V.R.Model: R448

- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- Remote run connextor
- 2x12V 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 forklots
- 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
- Breather valve for fuel tank
- Operation Manual / Parts List / Specifications

## 3 Equipment Specification

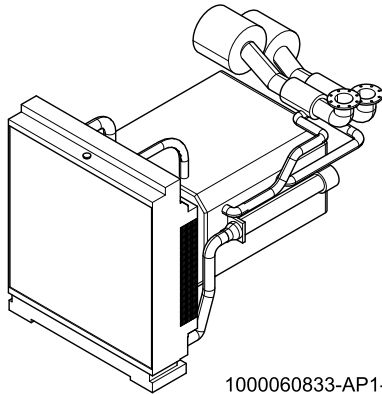
### General technical data



1000020783-AP1-A1

Model.....	WPS725S-AU
Structure type .....	C
Tank capacity.....	1150L
Dry weight.....	11155kg
Noise level @7m .....	N/A
Dimensions L×W×H.....	6058x2438x2725mm
Standby Power .....	798kVA/638kW
Prime Power .....	725kVA/580kW
Voltage/Ampere .....	415V/1009A

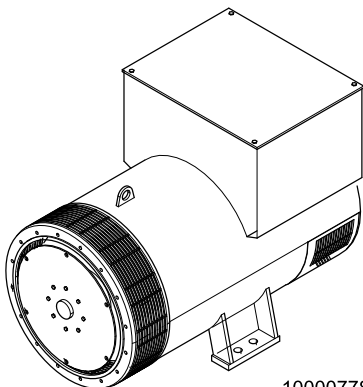
## Diesel Engine



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
Continuous Power.....	.705kW
Fuel Consumption(100%load).....	.210g/kW.h

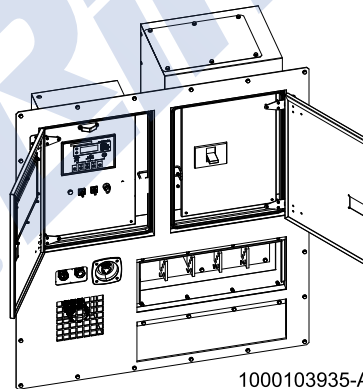
## Alternator



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-5220 Control System



1000103935-AP1-A1

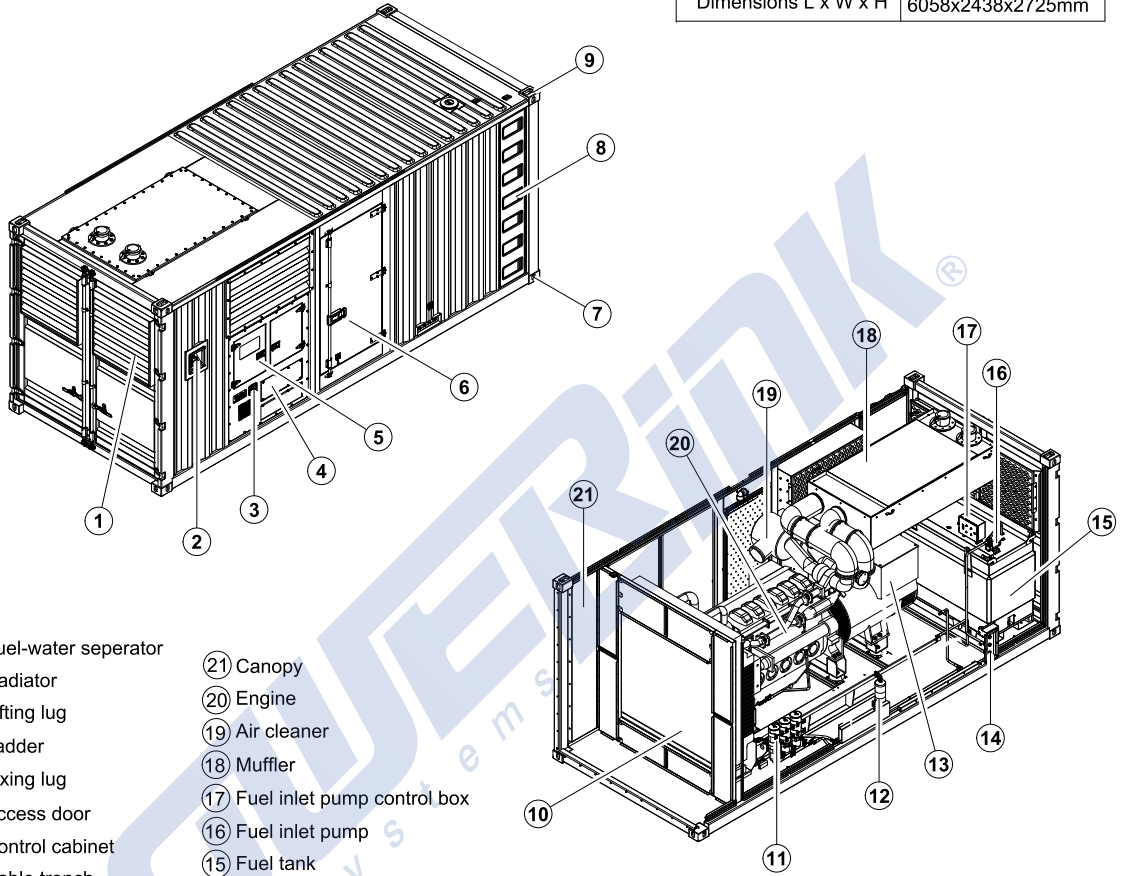
PLC-5220 is an automatic mains failure control module. It is used to monitor the mains supply and automatically start and stop the engine. The module indicates the operational status and fault conditions, automatically shutting down the engine and indicating engine failure on the LCD.

- Microprocessor control, with high stability and credibility
- Mains supply and generator operation monitoring
- Indicating operation status and fault conditions
- Multiple protections; multiple parameters display, like pressure, temp.
- Manual and automatic work mode selectable
- Real time clock for time and date display, overall runtime display, 99 log entries
- Overall power output display
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed
- Communication with PC via RS485 OR RS232 interface, using MODBUS protocol

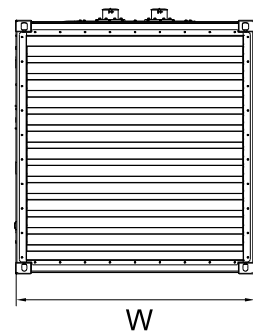
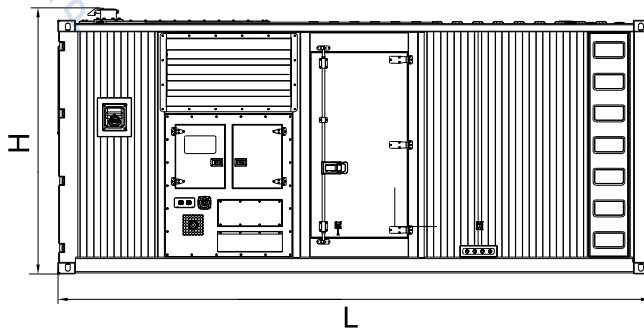
## 4 Overall Dimensions

1000020783-DR1-A1

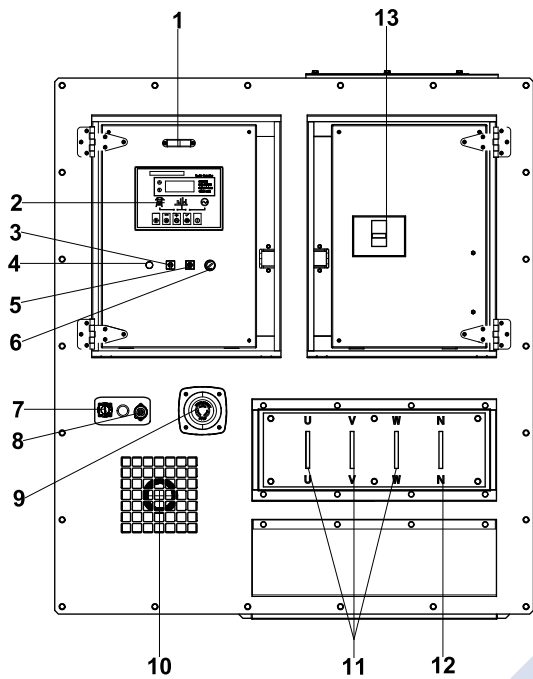
Dry weight	11155kg
Fuel tank capacity	1150L
Dimensions L x W x H	6058x2438x2725mm



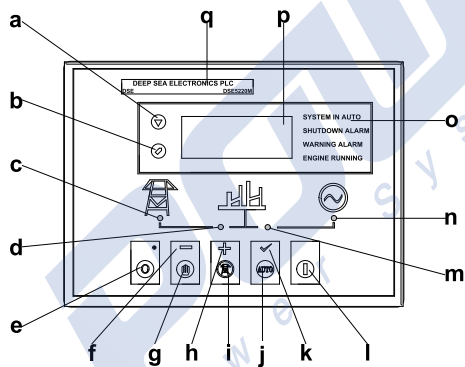
- ① Air inlet
- ② Fuel inlet
- ③ Emergency stop switch
- ④ Cable trench
- ⑤ Control cabinet
- ⑥ Access door
- ⑦ Fixing lug
- ⑧ Ladder
- ⑨ Lifting lug
- ⑩ Radiator
- ⑪ Fuel-water separator
- ⑫ Fire extinguisher
- ⑬ Alternator
- ⑭ External fuel inlet/return hose fitting
- ⑮ Fuel tank
- ⑯ Fuel inlet pump
- ⑰ Fuel inlet pump control box
- ⑱ Muffler
- ⑲ Air cleaner
- ⑳ Engine
- ㉑ Canopy



## 5 Control System



**Control Cabinet**



**Control Panel**

Ref.	Description
1	Control panel lamp
2	PLC-5220 control module
3	Mains input changeover switch
4	Charge indicator
5	Control panel lamp switch
6	Key switch
7	ATS connector
8	Remote run connector
9	Emergency stop button
10	Alarm indicator
11	Live wire terminals
12	Neutral wire terminal
13	Main circuit breaker

a	Scroll button
b	Information button(Change the display page)
c	Mains supply available LED
d	Mains supply on load LED
e	Stop/Reset button
f	Decrease (Configuration mode only)
g	Manual button (Manual control mode)
h	Increase (Configuration mode only)
i	Test button (Test mode)
j	Auto button (Auto mode)
k	Accept (Configuration mode only)
l	Start button
m	Genset on load LED
n	Genset available LED
o	Text insert
p	LCD display
q	Control module name

1000020783-A1-E
11.2010

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Power Systems

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*Specification may change without prior notice.*

*For more info., please contact Power Link or your local distributors.*

Local Distributor

