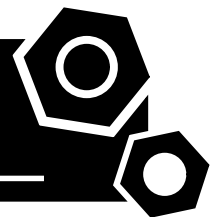


Generator set
Sound-proof type
WPS625S-AU

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

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

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.

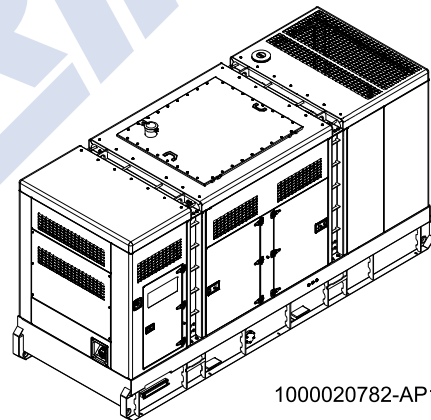
2 General Features

- Perkin engine 2806A-E18TAG2
- Close coupled to a Leroy Somer alternator LSA49.1S4A
- Microprocessor control module PLC-7320
- ABB main circuit breaker: 3-Phase 1000A
- 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 connector

- 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 forklifts
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank with 12 hours running
- Drain points for fuel tank
- Breather valve for fuel tank
- Operator's Manual / Specifications

3 Equipment Specification

General technical data

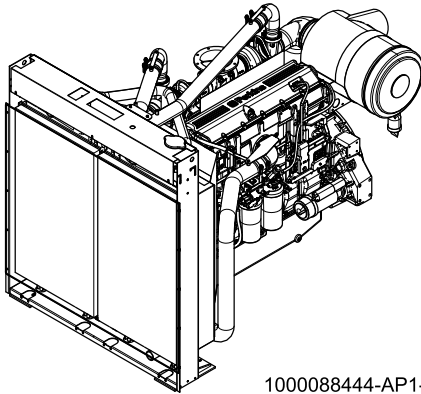


1000020782-AP1-E2

Model.....	WPS625S-AU		
Structure type	R		
Tank capacity	1650L		
Dry weigh.....	6590kg		
Noise level @7m	N/A		
Dimensions L×W×H.....	4692×1756×2641mm		
Standby Power	688kVA/550kW		
Prime Power	625kVA/500kW		

Voltage	380V	400V	415V		
Ampere	949.6A	902.1A	869.5A		
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	66	97	132	143

Diesel Engine

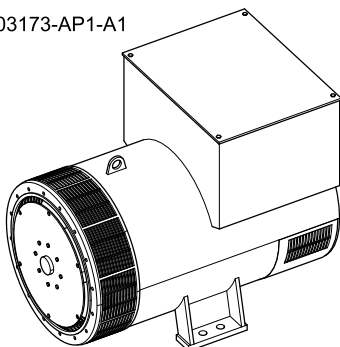


1000088444-AP1-A3

Engine Manufacturer/Brand.....	Perkins
Engine Model.....	2806A-E18TAG2
Dimensions L×W×H.....	2545×1536×1807.5mm
Dry Weigh (approx.)	2050kg
Number of Cylinders.....	6
Bore.....	145mm
Stroke.....	183mm
Displacement.....	18.13L
Compression Ratio.....	14.5
Type of Injection	MEUI
Intake System.....	Turbocharged, air-to-air charge cooled
Intake Resistance.....	≤6.4kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage.....	24V
Type of Fuel.....	BS2869 class A2 or BS EN590
Type of Oil	API CG4 or APEA E5
Oil Capacity	62L
Type of Coolant	Glycol Mixture
Coolant capacity.....	61L
Back Pressure	≤6.9kPa
Standby Power	628kW
Continuous Power.....	584kW
Fuel Consumption(100%load).....	132L/h

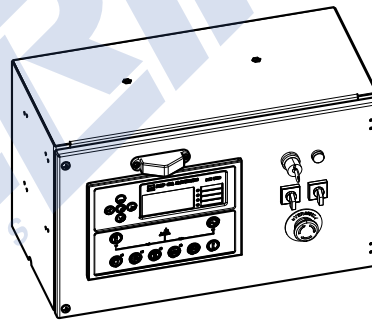
Alternator

1000103173-AP1-A1



Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA49.1S4A
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-7320 Control System



1000093792-AP1-C2

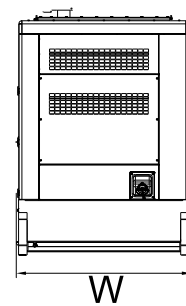
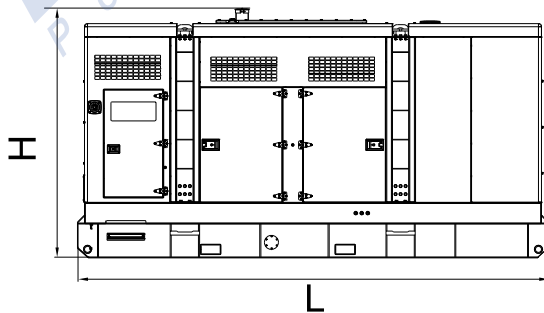
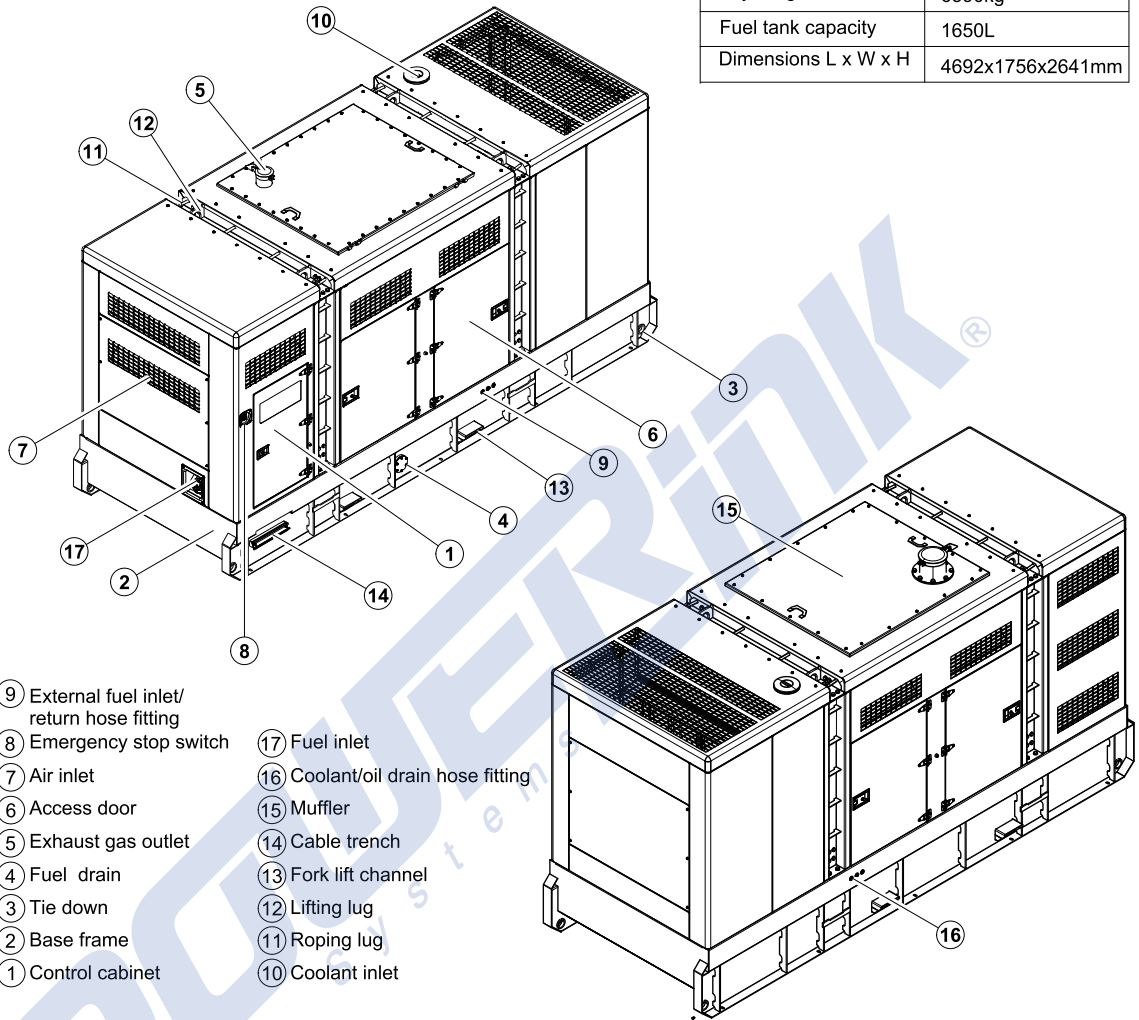
PLC-7320 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and 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

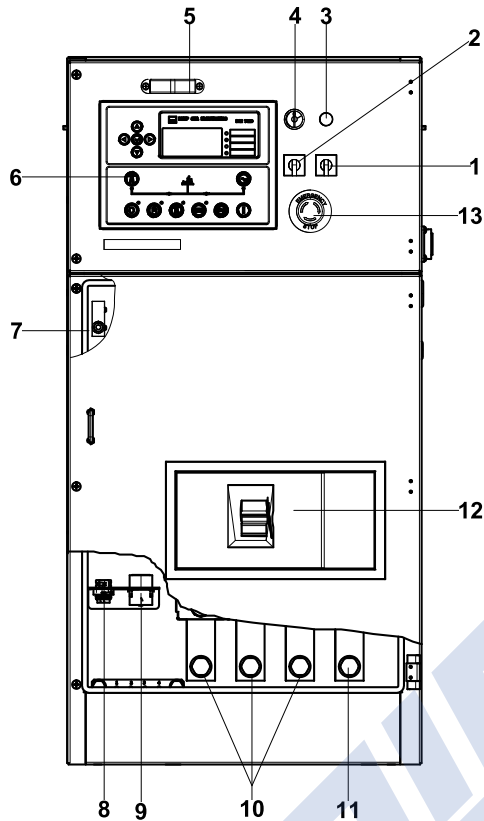
4 Overall Dimensions

1000020782-DR1-E2

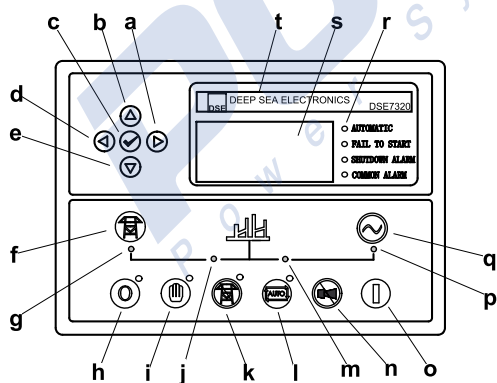
Dry weight	6590kg
Fuel tank capacity	1650L
Dimensions L x W x H	4692x1756x2641mm



5 Control System



Control & Field wiring cabinet



Control Panel

1000093792-IT1-C2

Ref.	Description
1	Control cabinet lamp switch
2	Mains input changeover switch
3	Charge indicator
4	Key switch
5	Control cabinet lamp
6	Control module
7	Limit switch
8	Remote run connector
9	ATS connector
10	Live wire terminals
11	Neutral wire terminal
12	Main circuit breaker
13	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

100020782-E2-E

12.2011

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Power Systems

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*Specification may change without prior notice. For more info.,
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