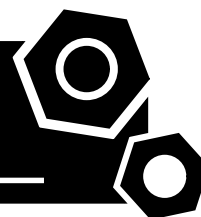


Generator set
Sound-proof type
WPS180S-AU

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.

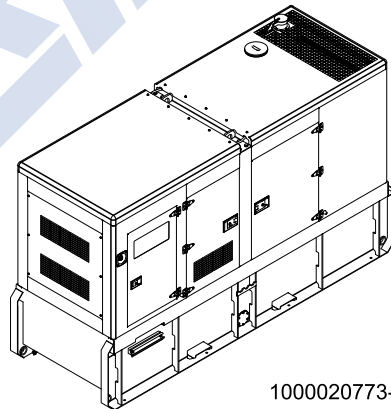
2 General Features

- Perkins engine 1106A-70TAG3
- Close coupled to a Leroy Somer alternator LSA46.2M3
- Microprocessor control module PLC-7320
- **4P ABB TMAX C/B** 3-Phase 315A
- 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

- Remote run connector
- 1x12V 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 24 hours running
- Drain points for fuel tank
- Breather valve for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

General technical data



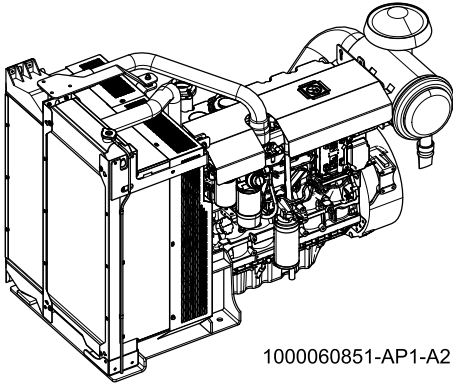
1000020773-AP1-C2

Model.....	WPS180S-AU
Structure type	R
Tank capacity.....	1087L
Dry weigh.....	2840kg
Noise level @7m	65.1dBA
Dimensions L×W×H.....	3518x1262x2156mm
Standby Power	195kVA/156kW
Prime Power	180kVA/144kW
Voltage/Ampere	415V/250.4A

Genset Fuel Consumption

Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	20.5	31.0	40.2	43.8

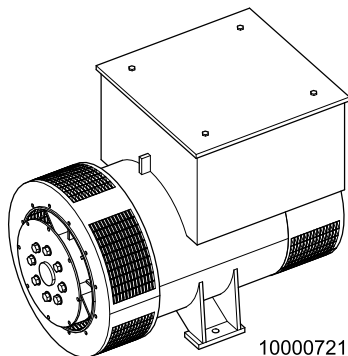
Diesel Engine



1000060851-AP1-A2

Engine Manufacturer/Brand	Perkins
Engine Model	1106C-E66TAG4
Dimensions L×W×H.....	1763.2×788.3×1140.4mm
Dry Weigh (approx.)	788kg
Number of Cylinders	6
Bore	105mm
Stroke	127mm
Displacement.....	6.6L
Compression Ratio	16.2
Type of Injection	Direct injection
Intake System.....	turbocharged, air-to-air charge cooled
Intake Resistance	≤8kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12V
Type of Fuel.....	BS2869, 1998 Class A2 or BS EN590
Type of Oil	API-CH4/C14
Oil Capacity	16.5L
Type of Coolant	Glycol mixture
Coolant Capacity	21L
Back Pressure	≤ 10kPa
Standby Power	180.4kW
Continuous Power.....	163.3kW
Fuel Consumption(100%load).....	40.2L/h

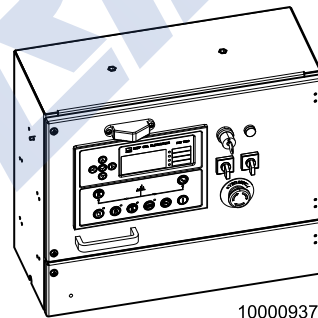
Alternator



1000072120-AP1-A1

Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA46.2M3
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.....	0.43m³/s(50Hz),0.51m³/s(60Hz)
Voltage Regulation	±0.5%
Total harmonic TGH / THC	at no load < 2.5 % - on load < 2.5%
Telephone Interference.....	THF<2%;TIF<50

PLC-7320 Control System



1000093773-AP1-A1

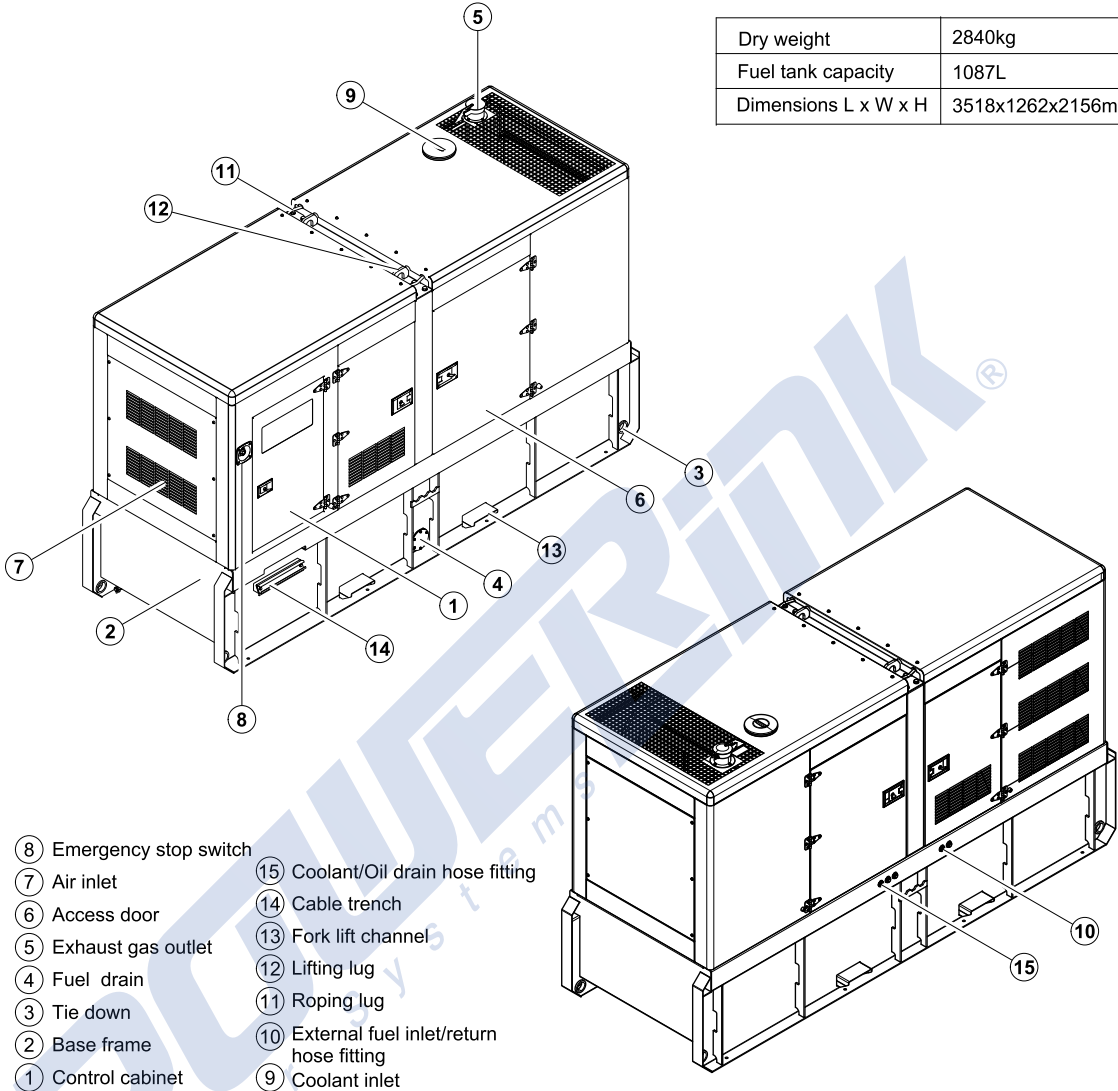
PLC-7320 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

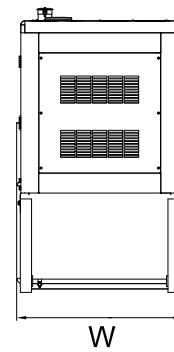
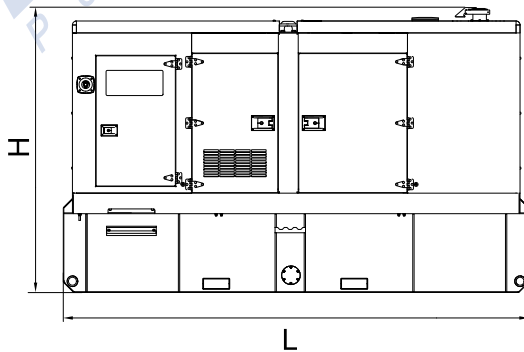
4 Overall Dimensions

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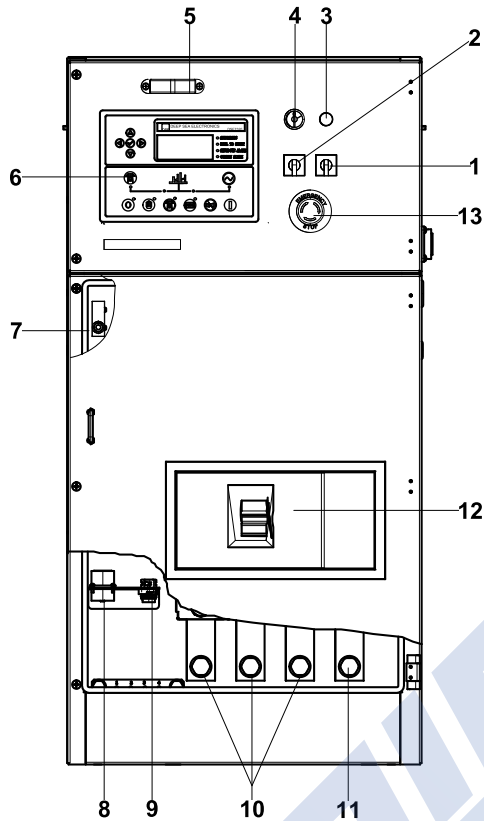
Dry weight	2840kg
Fuel tank capacity	1087L
Dimensions L x W x H	3518x1262x2156mm



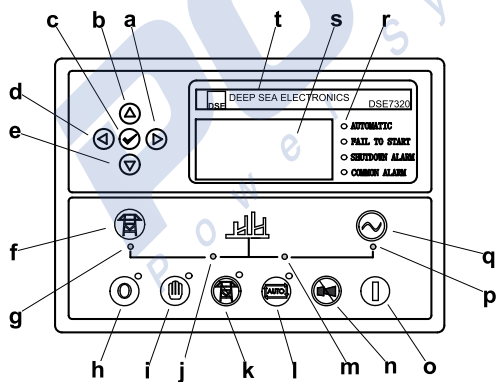
- ⑧ Emergency stop switch
- ⑦ Air inlet
- ⑥ Access door
- ⑤ Exhaust gas outlet
- ④ Fuel drain
- ③ Tie down
- ② Base frame
- ① Control cabinet
- ⑮ Coolant/Oil drain hose fitting
- ⑭ Cable trench
- ⑬ Fork lift channel
- ⑫ Lifting lug
- ⑪ Roping lug
- ⑩ External fuel inlet/return hose fitting
- ⑨ Coolant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



5 Control System



Control & Field wiring cabinet



Control Panel

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	ATS connector
9	Remote run 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

100020773-C2-E

05.2012

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contact Power Link or your local distributors please.*