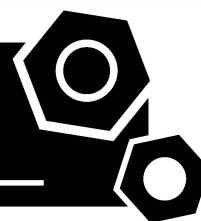


Generator set

Sound-proof type

WPS100S-AU

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- ISO8528-5:2005
- AS 3000-2018
- AS 3010-2017

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.

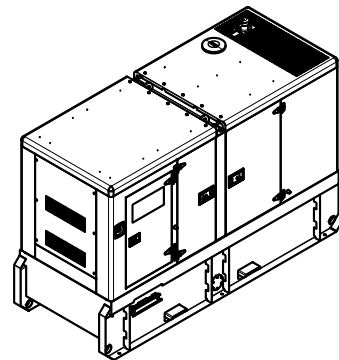
2 General Features

- Perkins engine 1104C-44TAG2
- Close coupled to Leroy Somer alternator LSA44.3S5
- Microprocessor controller ComAp InteliLite4-AMF9
- ABB main circuit breaker: 160A
- Rotate speed governor: Electronic
- Excitation System: Self Excited SHUNT
- A.V.R. Model: R250
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle

- Remote run connector
- 1x12V/120AH 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 23 hours running
- Drain points for fuel tank
- Breather valve for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

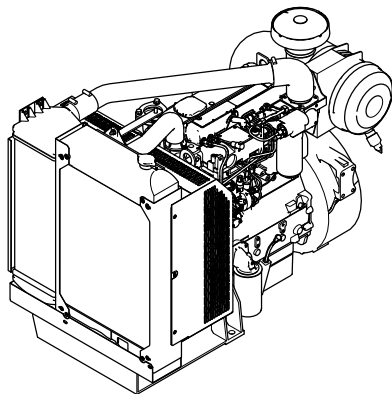
General technical data



Model..... WPS100S-AU
 Structure type R
 Tank capacity..... 530L
 Dry weight..... 1993kg
 Noise level @7m 68.2dBA
 Dimensions L×W×H..... 2888×1100×1901mm
 Standby Power 110kVA/88kW
 Prime Power 100kVA/80kW

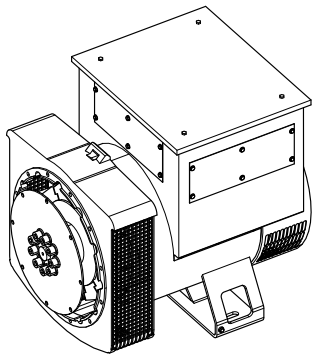
Voltage	415V	440V	460V	480V	
Ampere	139A	131A	126A	120A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	11.2	17.1	22.6	24.9

Diesel Engine



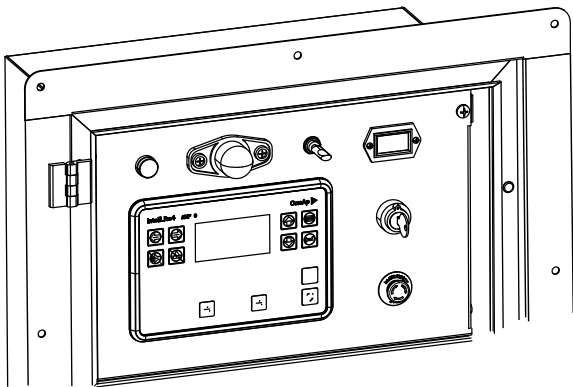
Engine Manufacturer/Brand.....	Perkins
Engine Model.....	1104C-44TAG2
Dimensions L×W×H.....	1259×721×966mm
Dry Weigh (approx.)	401kg
Number of Cylinders.....	4
Bore.....	105mm
Stroke.....	127mm
Displacement.....	4.4L
Compression Ratio.....	18.23
Type of Injection	Direct
Intake System.....	Turbocharged, air-to-air charge cooled
Intake Resistance.....	≤8.0kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12V
Type of Fuel.....	EPA2D 89.330-96
Type of Oil	API-CC/SE or CCMC-D1
Oil Capacity	8.0L
Type of Coolant	Glycol mixture
Coolant Capacity	12.6L
Back Pressure.....	≤18kPa
Standby Power	103kW
Prime Power	93.6kW
Fuel Consumption(100%load).....	22.6L/h

Alternator



Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA44.3S5
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.....	0.25m³/s(50Hz),0.3m³/s(60Hz)
Voltage Regulation	±0.5%
Total harmonic TGH / THC at no load < 2 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

IntelliLite4-AMF9 Control System

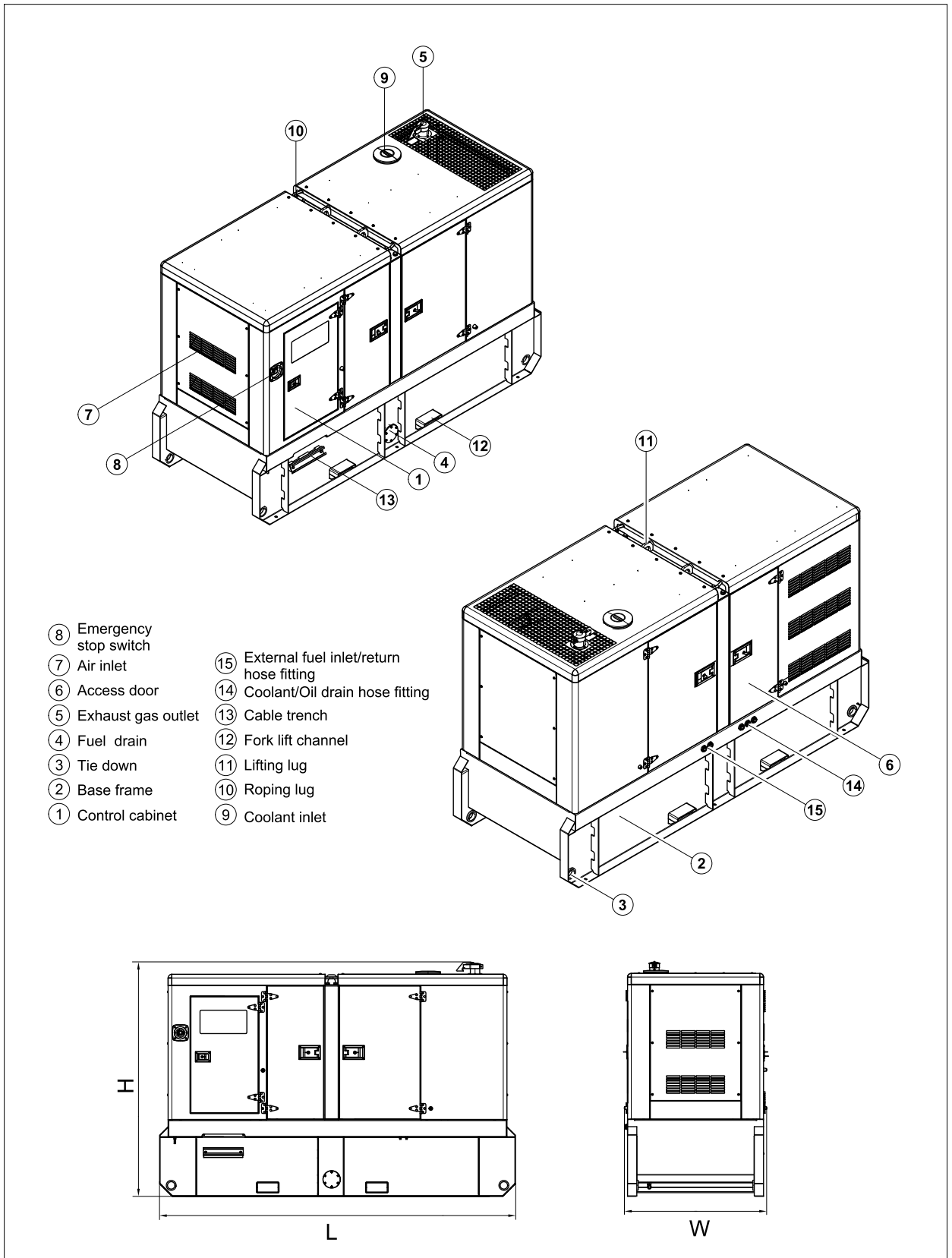


IntelliLite4-AMF9 is Single Gen-set controller for stand-by and prime-power applications and all-in-one intuitive & powerful PC tool for configuration/monitoring/control, locally or remotely and easy to install, configure and use

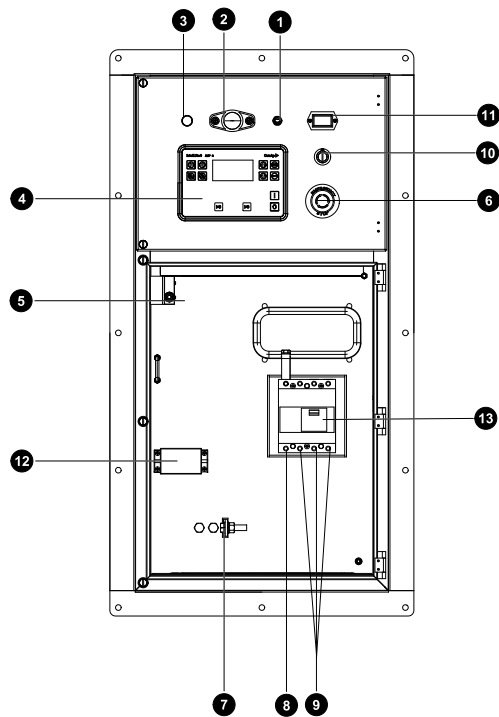
Standard Control Function

- Stand-by and prime-power application in one unit
- Dual Mutual Standby application support
- Remote display
- User setpoints and protections
- User Access Management
- Cyber security improvement
- Alternative configurations
- Multi-purpose schedulers

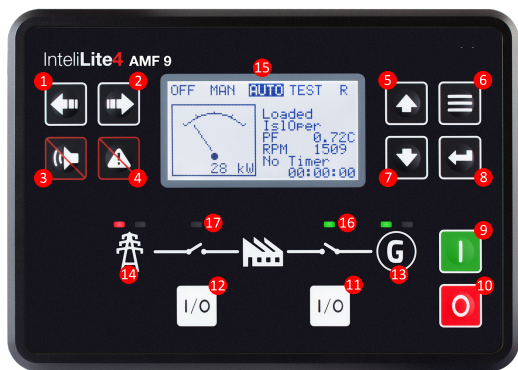
4 Overall Dimensions



5 Control System



Control & field wiring cabinet



Control module

Ref.	Description
1	Control cabinet lamp switch
2	Control cabinet lamp
3	Charge indicator
4	Control module
5	Limit switch
6	Emergency stop button
7	Ground wire terminal
8	Neutral wire terminal
9	Live wire terminals
10	Key switch
11	Time counter
12	Mains input/ remote/AMF communication connector
13	Main circuit breaker

Ref.	Description
1	LEFT button.
2	RIGHT button
3	HORN RESET button
4	FAULT RESET button
5	UP button
6	PAGE button
7	DOWN button
8	ENTER button
9	START button
10	STOP button
11	GCB button
12	MCB button
13	GENERATOR status indicator
14	MAINS status indicator
15	Graphic B/W display, 132 × 64 px.
16	GCB Status
17	MCB Status

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