

**Generator set**  
**Sound-proof type**  
**WPS135S-AU**

# **SPECIFICATIONS**



## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- Conformance Europeenne (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 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.

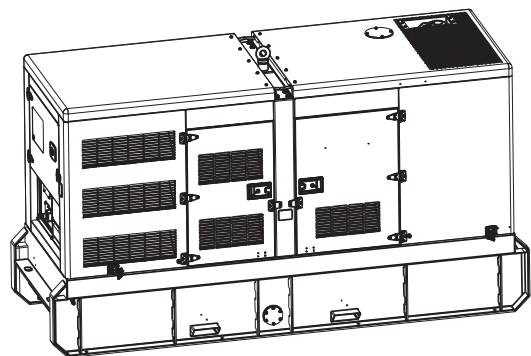
## 2 General Features

- Perkins engine 1106D-E70TAG2
- Close coupled to a Leroy Somer alternator LSA44.3L10
- Microprocessor control module MRS15
- ABB main circuit breaker: 200A
- 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
- 1x12V/120AH sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Oil pump on the engine
- Steel base frame with forklifts
- 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
- Operation Manual / Specifications

## 3 Equipment Specification

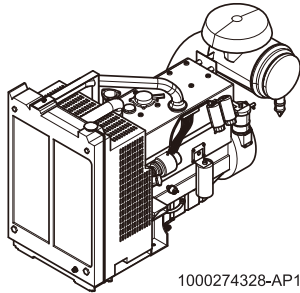
### General technical data



Model.....	WPS135S-AU
Structure type .....	R
Tank capacity.....	720L
Dry weight.....	2789kg
Noise level @7m .....	N/A
Dimensions L×W×H.....	3538×1263×2000mm
Standby Power .....	150kVA/120kW
Prime Power .....	135kVA/108kW
Voltage/Ampere .....	415V/187.8A

Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	9	15.9	22.7	30.28	33.8

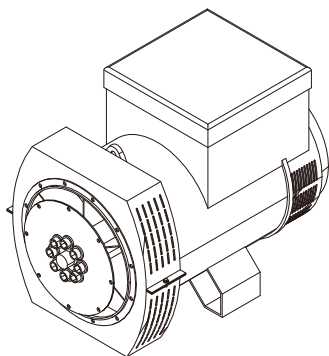
## Diesel Engine



1000274328-AP1-A1

Engine Manufacturer/Brand.....	Perkins
Engine Model.....	1106D-E70TAG2
Dimensions L×W×H.....	1509×760×1042mm
Dry Weight (approx.) .....	725kg
Number of Cylinders.....	6
Bore.....	105mm
Stroke .....	135mm
Displacement.....	7.01L
Compression Ratio .....	18.2
Type of Injection .....	Direct injection
Intake System.....	Turbocharged and air charge cooled
Intake Resistance.....	≤3kPa
Cooling System .....	Water cooled
Fan .....	Pusher
Battery Voltage .....	12V
Type of Fuel.....	ASTM D975, Class 1D & Class 2D
Type of Oil .....	API-CH4/ACEA E5
Oil Capacity .....	16.5L
Type of Coolant .....	Glycol mixture
Coolant Capacity .....	21L
Heat Rejected To Exhaust System .....	89.8kW
Heat Rejected To Water&Oil.....	74.9kW
Back Pressure .....	N/A
Standby Power .....	136.9kW
Prime Power .....	123.7kW
Fuel Consumption(100%load).....	30.28L/h

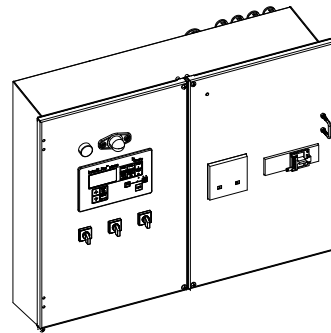
## Alternator



1000072114-AP1-A1

Alternator Manufacturer/Brand .....	Leroy Somer
Alternator Model .....	LSA44.3L10
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

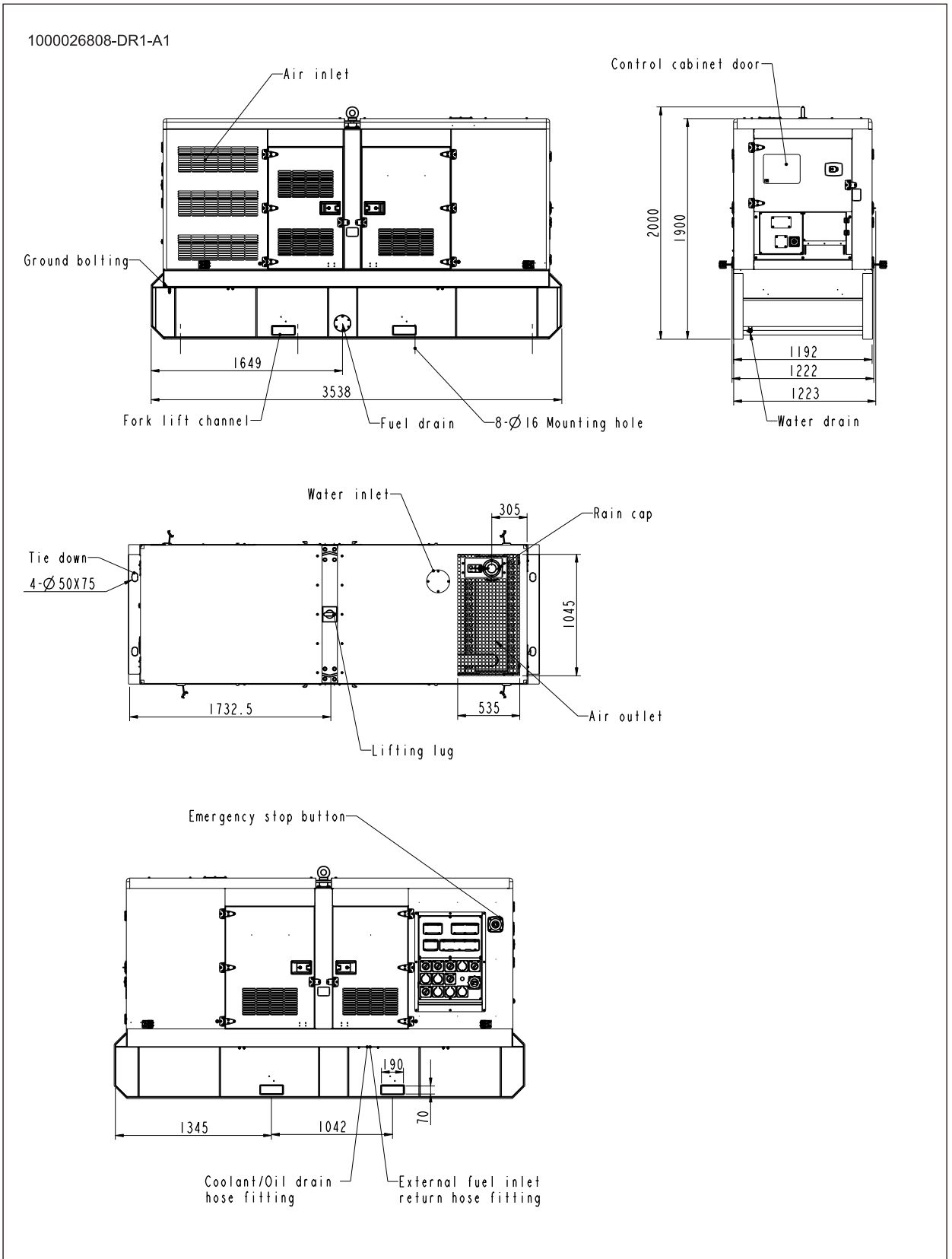
## MRS Control System



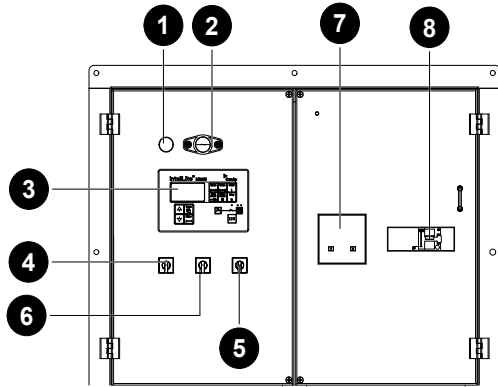
MRS is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and display 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, 200 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

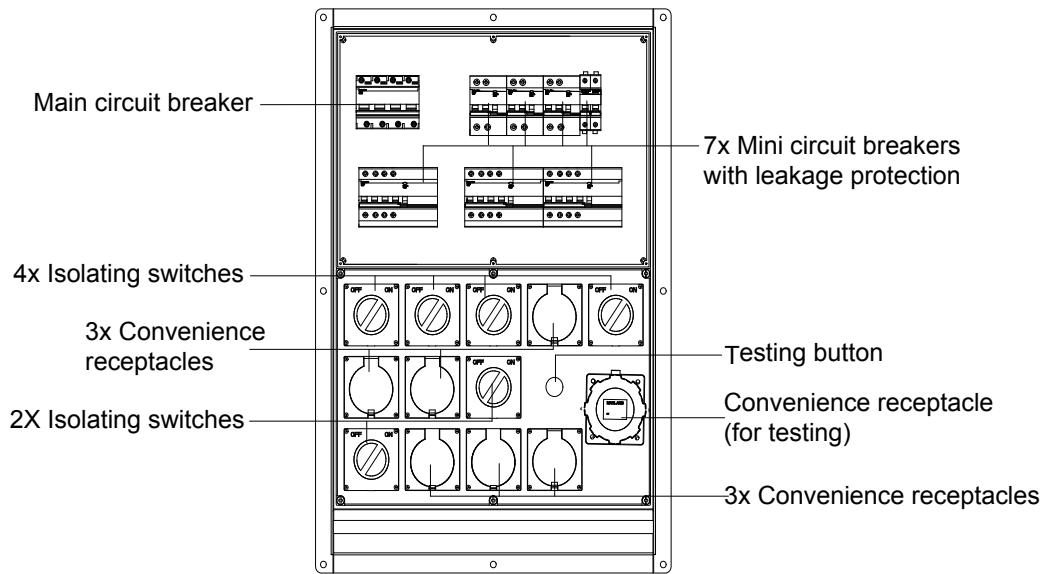


## 5 Control System



Control cabinet

Ref.	Description
1	Charge indicator
2	Panel light
3	Control module
4	Control power switch
5	Not ready indicator
6	Panel light switch
7	RCD
8	Main circuit breaker



Convenience receptacle box

1000028900-B3-E
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02.2019
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<http://www.powerlinkworld.com>

*Specification may change without prior notice. For more info.,  
contact Power Link or your local distributors please.*