

DGPL550P - 3

50 Hz @ 1500rpm, 3-phase / 5-wiring

A. STANDARDS & CONDITIONS

Design Standards

The designs and the productions are in conformity with:

- Conformance Europeenne (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 varying: 0%, 25%, 50%, 75%, 100%, 110% Load

Painting Process

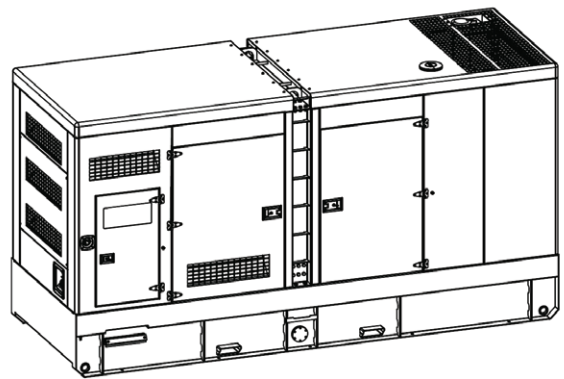
- Painting process specifications and colors are based on the manufacturer's standard
- The customer could also choose the color which the manufacturer offers

B. GENERAL FEATURES

- Perkins engine 2506A-E15TAG2
- Close coupled to Leroy Somer alternator LSA47.3M7
- Microprocessor controller ComAp IntelliLite4-AMF9
- ABB main circuit breaker: 800A
- Rotate speed governor: Electronic
- Excitation system: Self excited, SHUNT
- A.V.R model: R250
- Voltage changeover switch
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- Remote run connector
- 2x12V/150AH 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 forkslots

- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 16 hours running
- Drain points for fuel tank
- Breather valve for fuel tank
- Operation Manual / Specifications

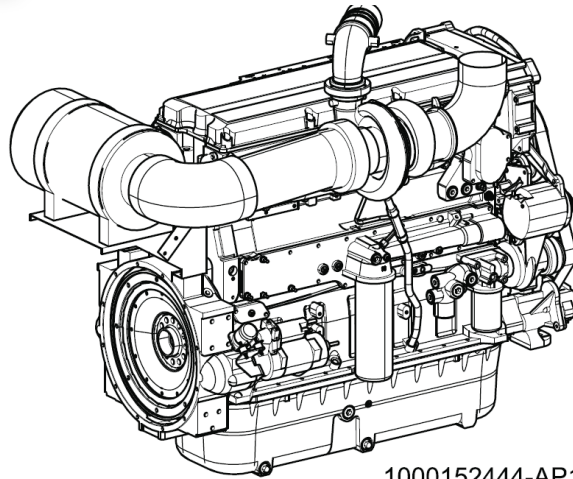
C. GENERAL TECHNICAL DATA



MODEL	WPS500S-AU
STRUCTURE TYPE	R
TANK CAPACITY	1600 L
DRY WEIGHT	5396 kg
NOISE LEVEL @ 7M	75.3 dBA
DIMENSIONS	4586x1564x2556mm
STANDBY POWER	550 kVA / 440 kW
PRIME POWER	500 kVA / 400 kW
VOLTAGE/AMPERE	415V/696A

GENSET FUEL CONSUMPTION					
Freq./Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	55	79	108	117

DIESEL ENGINE



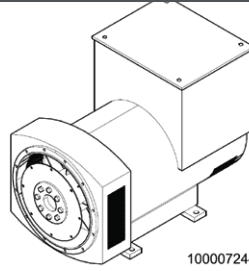
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ENGINE SPECIFICATIONS

1	ENGINE MANUFACTURER/BRAND	Perkins
2	ENGINE MODEL	2506A-E15TAG2
3	DIMENSIONS	2657×1120×1718mm
4	DRY WEIGHT (APPROX.)	1633kg
5	NUMBER OF CYLINDERS	6
6	BORE	137 mm
7	STROKE	169 mm
8	DISPLACEMENT (LITER)	15.2 L
9	COMPRESSION RATIO	16
10	TYPE OF INJECTION	Direct Injection
11	INTAKE SYSTEM	Turbocharged, air-to-air charge cooled
12	INTAKE RESISTANCE	6.2 kPa
13	COOLING SYSTEM	Water Cooled
14	FAN	Pusher
15	BATTERY VOLTAGE	24V
16	TYPE OF FUEL	BS2869 class A2 or BS EN590
17	TYPE OF OIL	API CI4 or ACEA E5
18	OIL CAPACITY	62 L
19	TYPE OF COOLANT	Glycol Mixture
20	COOLANT CAPACITY	58 L
21	BACK PRESSURE	6.8kPa
22	STANDBY POWER	503kW
23	PRIME POWER	459kW
24	FUEL CONSUMPTION (100% LOAD)	202g/kW.h

POWER ANYTIME

ALTERNATOR



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ALTERNATOR SPECIFICATIONS

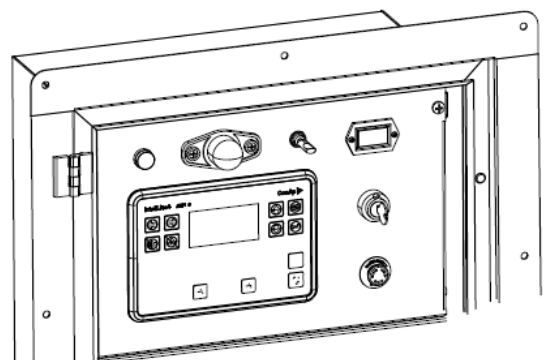
1	ALTERNATOR MANUFACTURER/BRAND	Leroy Somer
2	ALTERNATOR MODEL	LSA47.3M7
3	EXCITER	Brushless
4	COOLING FAN	Cast Alloy Aluminum
5	WINDINGS	100% Copper
6	INSULATION CLASS	H
7	WINDING PITCH	2 / 3
8	TERMINALS	12
9	DRIP PROOF	IP23
10	ALTITUDE	≤ 1000m
11	OVERSPEED	2250rpm
12	AIR FLOW	0.9m ³ /s(50Hz), 1.1m ³ /s(60Hz)
13	VOLTAGE REGULATION	± 0.5%
14	TOTAL HARMONIC TGH / THCat No Load < 1.5%	on load < 2 %
15	TELEPHONE INTERFERENCE	THF < 2%; TIF <50

IntelliLite4-AMF9 Control System

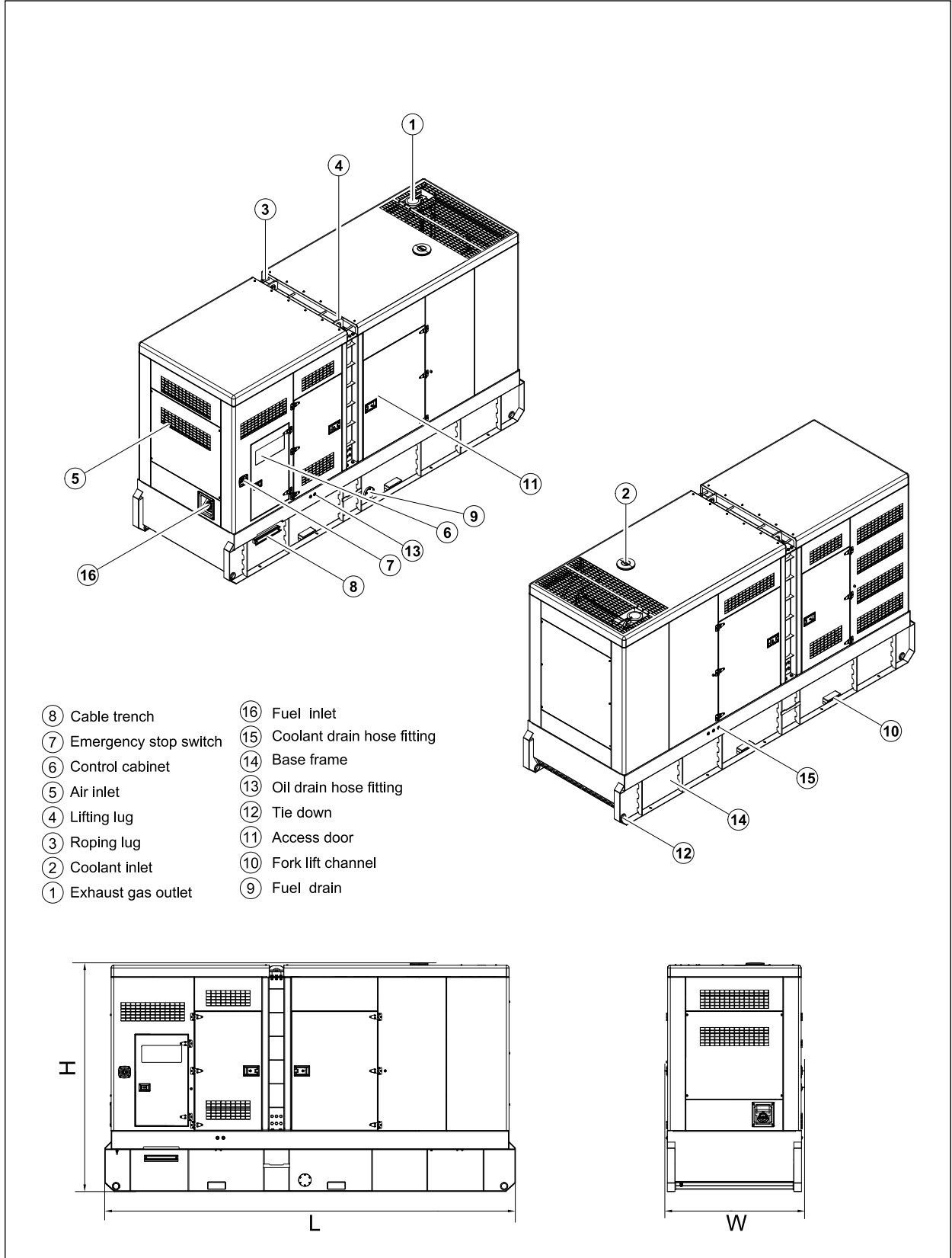
IntelliLite4-AMF9 is Single Gen-set controller for stand-by and prime-power applications and all-in-one intuitive & powerful PC tool for configuration/monitoring/control, locally or remotely and easy to install, configure and use

Standard Control Function

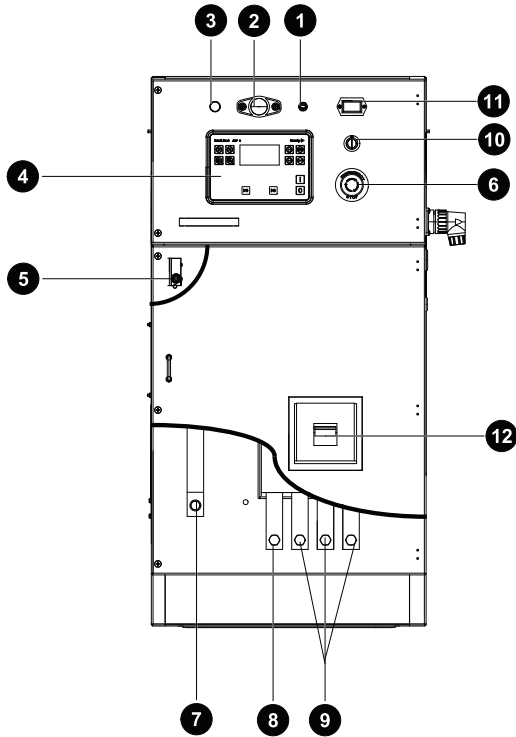
- Stand-by and prime-power application in one unit
- Dual Mutual Standby application support
- Remote display
- User setpoints and protections
- User Access Management
- Cyber security improvement
- Alternative configurations
- Multi-purpose schedulers



4 Overall Dimensions

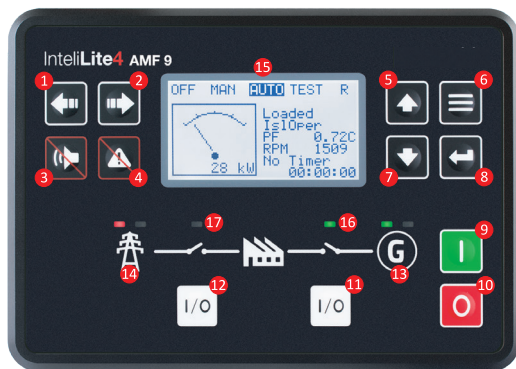


Control System



Control & field wiring cabinet

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	Main circuit breaker



Control module

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