

Generator set
Sound-proof type
WPS80S

SPECIFICATIONS





1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- ISO9001:2015

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 80%.
- Altitude: Below one thousand (1000) meters.

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.

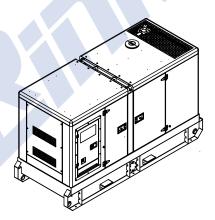
2 General Features

- Perkins engine 1104A-44TG2
- Close coupled to a Leroy Somer alternator LSA44.3S3
- Microprocessor control module PLC-920
- ABB main circuit breaker: 125A
- Rotate speed governor: Mechanical governor
- Excitation System: SHUNT
- A.V.R.Model: R220
- Key switch
- · Emergency stop switch
- · ATS (automatic transfer switch) receptacle
- 12Vsealed for life maintenance free battery

- · Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- · Oil pump on the engine
- · Steel base frame with forkslots
- Vibration isolators between the engine/alternator and base frame
- · Dry type air filter
- Base fuel tank for An hours running
- · Drain points for fuel tank
- Operation Manual / Specifications

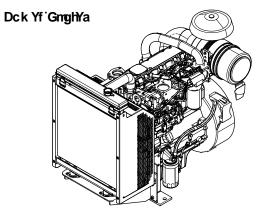
3 Equipment Specification

General technical data

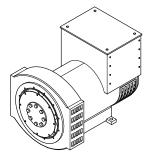


Model			WPS80S	
Structure type			R	
Tank capacity			180L	
Dry weighc			1711kg	
Sound pressure level @	7m		66.7dB(A)	
Dimensions L×W×H		2788x116	35x1700mm	
Standby Power		88kVA/70kW		
Prime Power		8	0kVA/64kW	

Voltage	380	V	400V		415V		440V	
Ampere	121.6	3A 11		15.5A	111.3A		104.9A	
Genset Fuel Consumption								
Frequency/Load		25	5%	50%	75%	10	00%	110%
50Hz (L/h)		5.	.2	9.7	14.0	18	3.7	20.5

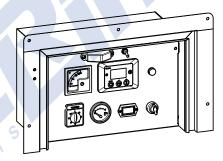


Engine Manufacture	/BrandPerkins
Engine Model	1104A-44TG2
Dimensions L×W×H.	1241×629×951mm
Dry Weight (approx.)	463kg
Number of Cylinders	4
Bore	105mm
Stroke	127mm
Displacement	4.4L
Compression Ratio	17.25
Type of injection	Direct injection
Intake System	Turbocharged,air-to-air charge cooled
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12V
Type of Fuel	Part 2 1998 Class A2 or DIN EN 590
Type of Oil	APi-CG4/ CH4
Oil Capacity	8.0L
Type of Coolant	Glycol mixture
Coolant Capacity	13L
Standby Power	88kW
Prime Power	80kW
Fuel Consumption(10	00%load)18.7L/h



Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA44.3S3
Exciter	Brushless
Cooling Fan	Cast alloy aluminum
Windings	100% copper
Insulation Class	H
Winding Pitch	2/3
Drip Proof	IP23
Altitude	≤1000m
Overspeed	2250rpm
Air Flow 0.8m³/s(50l	HZ),0.99m³/s(60HZ)
Voltage Regulation	±1.0%
Total harmonic TGH / THCat no load < 1	1.5 % - on load < 5%
Telephone Interference	THF<2%;TIF<50

PLC-920 Control System

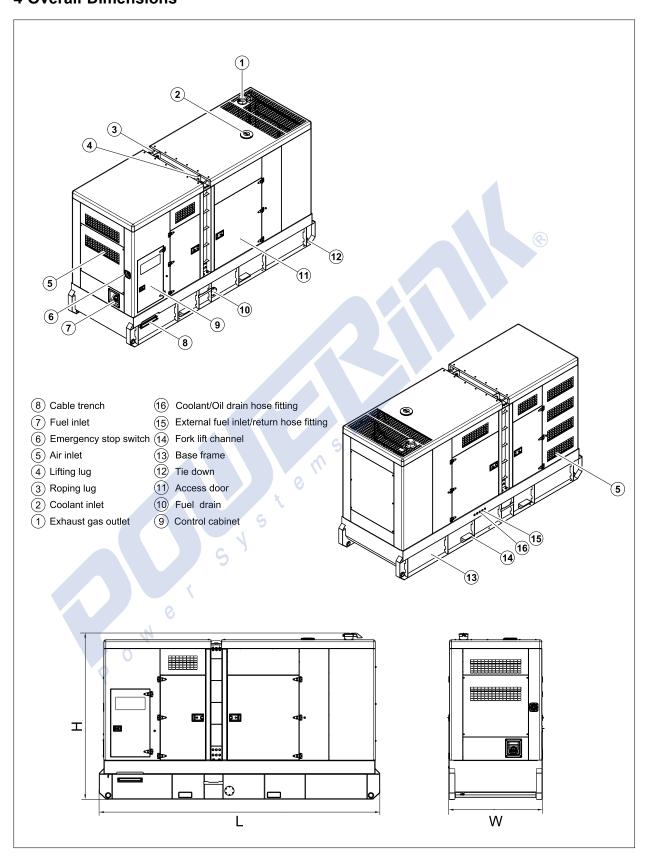


PLC-920 is an advanced control module based on microprocessor designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine failure.

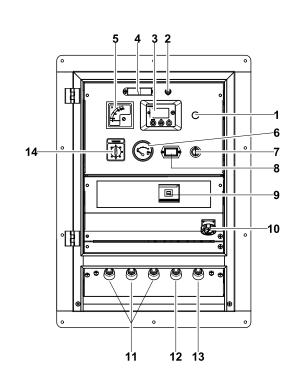
Standard Control Function

- Manual Engine Control Module
- Low Oil Pressure
- High Engine Temperature
- Auxiliary Shutdown
- Overspeed Protection
- Protection hold-off timer
- Charge Failure warning

4 Overall Dimensions

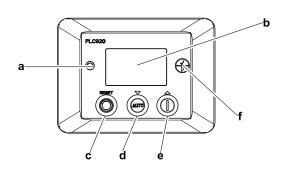


5 Control System



Ref.	Description
1	Charge indicator
2	Control cabinet lamp switch
3	Control module
4	Control cabinet lamp
5	Voltage meter
6	Fuel level meter
7	Key switch
8	Time counter
9	Main circuit breaker
10	Mains input /ATS /Remote communication connector
11	Live wire terminal
12	Neutral wire terminal
13	Ground wire terminal
14	Voltmeter change-over switch

Control & field wiring cabinet



Control module

Ref.	Description
а	Alarm indicator
b	Main status display
С	Stop/reset button; Next page (Configuration mode only)
d	Auto start button; Decrease value/next item (Configuration mode only)
е	Start button; Increase value/next item (Configuration mode only)
f	Navigation button: Accept (Configuration mode only)

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