

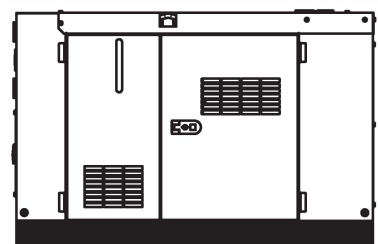
SPECIFICATIONS

Gogopower

SDT15X5S-AU

SOUND-PROOF TYPE

DIESEL GENERATOR SET



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 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.

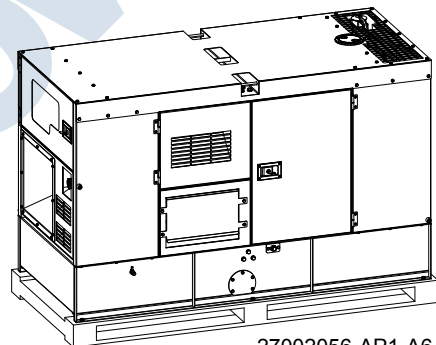
2 General Features

- Potise engine 480
- Close coupled to a Potise alternator P180DS
- Microprocessor control module PLC-920
- NADER main circuit breaker: 80A
- Rotate speed governor: Mechanical governor
- Excitation system: Self excited, SHUNT
- A.V.R model: SX460
- Key switch

- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- Remote run connector
- 1x12V/60AH sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Steel base frame
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Fuel tank for 33 hours running
- Operation Manual / Specifications

3 Equipment Specification

General technical data



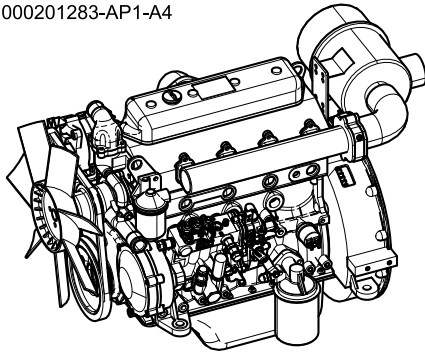
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Model.....	SDT15X5S-AU
Tank capacity.....	130L
Dry weight.....	822kg
Sound pressure level @ 7m	N/A
Sound power acc. 2000/14/EC.....	N/A
Dimensions L×W×H.....	1900×870×1269mm
Standby Power	17kVA/13kW
Prime Power	15kVA/12kW
Voltage/Ampere	240V/62.5A

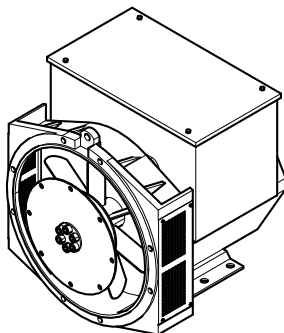
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	1.9	2.8	3.9	4.5

Power System

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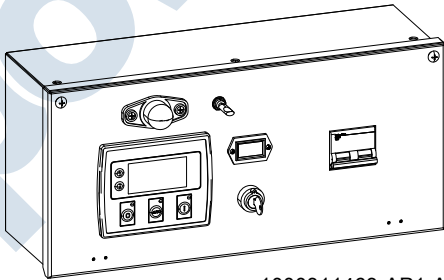
Engine Manufacturer/Brand.....	Potise
Engine Model.....	480
Dimensions L×W×H.....	885×559×648.5mm
Dry Weigh (approx.)	200Kg
Number of Cylinders.....	4
Bore.....	80mm
Stroke	90mm
Displacement.....	1.809L
Compression Ratio.....	18
Type of injection.....	Direct injection
Intake System.....	Natural aspirated
Intake Resistance.....	5kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage.....	12V
Type of Fuel.....	Standard Light Diesel 0#
Type of Oil	API CD/SE or CCMCD4
Oil Capacity	N/A
Type of Coolant	Glycol mixture
Coolant Capacity.....	N/A
Back Pressure	≤6.0kPa
Standby Power	15.4kW
Prime Power.....	14kW
Fuel Consumption(100%load).....	240g/kW.h



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Alternator Manufacturer/Brand	Potise
Alternator Model	P180DS
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.....	N/A
Voltage Regulation	±1.0%
Total Harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

PLC-920 Control System



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PLC-920 is an advanced control module based on microprocessor designed to control the engine via 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.

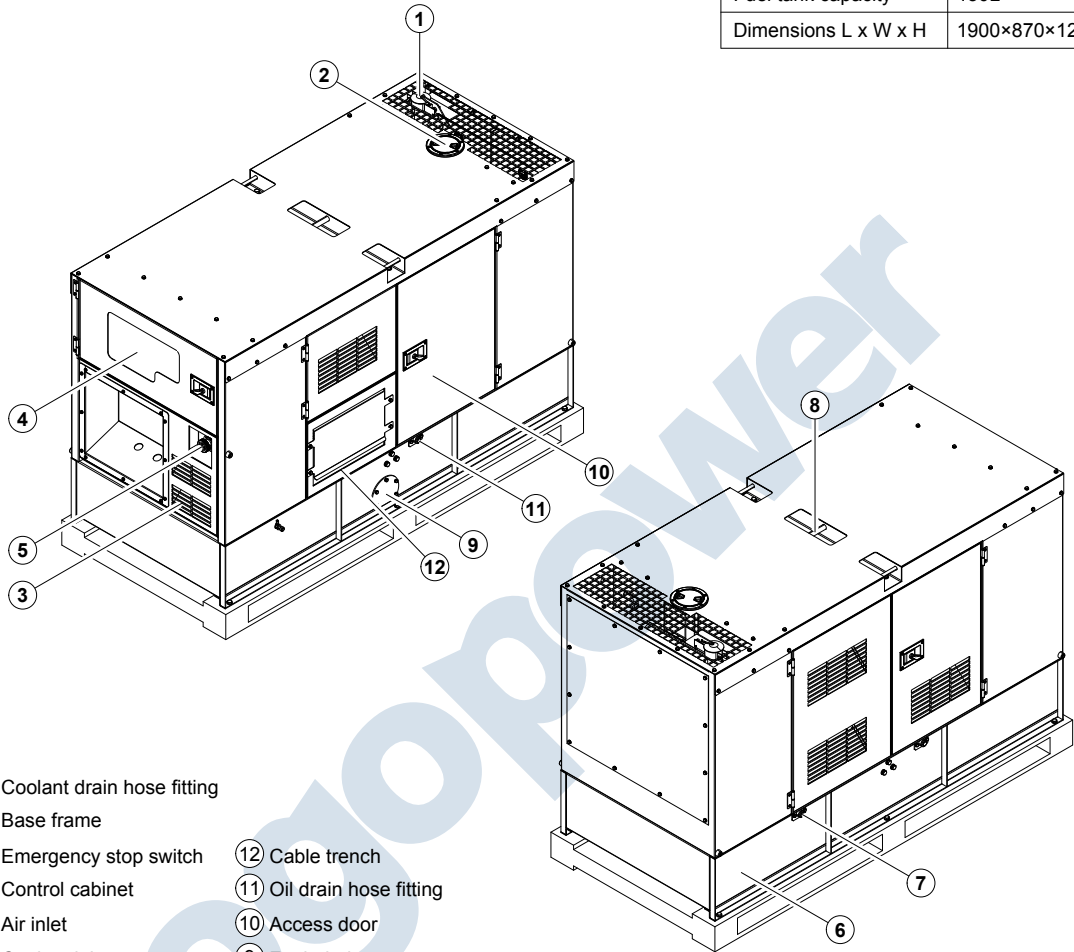
Standard Control Function

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

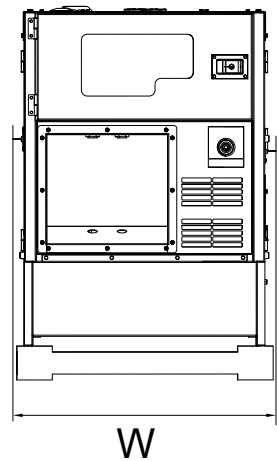
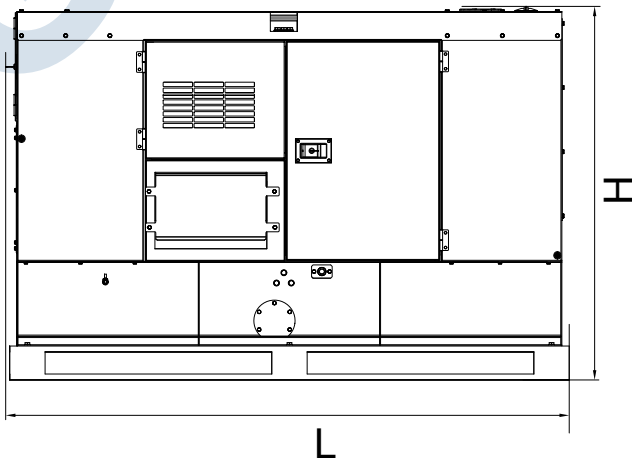
4 Overall Dimensions

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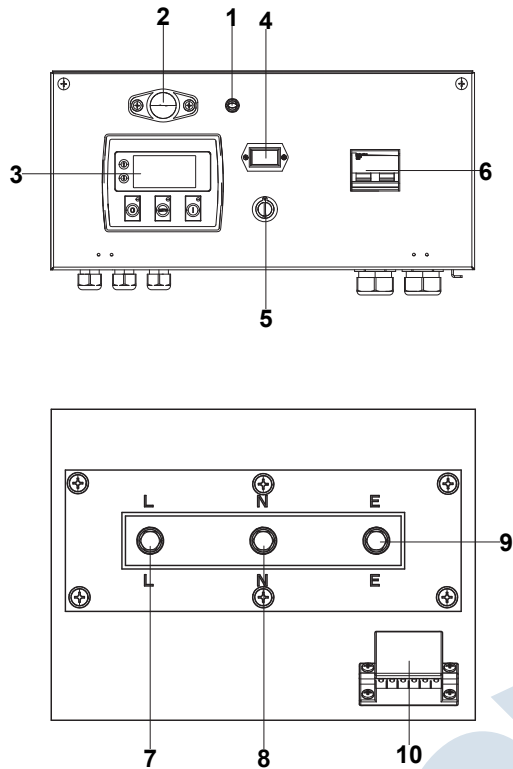
Dry weight	822kg
Fuel tank capacity	130L
Dimensions L x W x H	1900×870×1269mm



- ⑦ Coolant drain hose fitting
- ⑥ Base frame
- ⑤ Emergency stop switch
- ④ Control cabinet
- ③ Air inlet
- ② Coolant inlet
- ① Exhaust gas outlet
- ⑫ Cable trench
- ⑪ Oil drain hose fitting
- ⑩ Access door
- ⑨ Fuel drain
- ⑧ Lifting lug

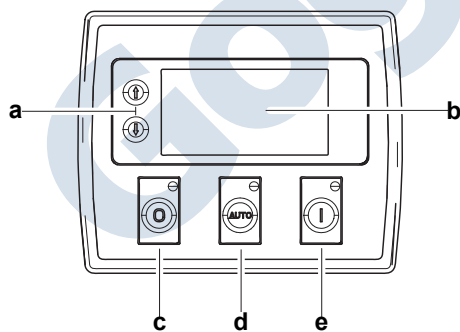


5 Control System



Control & field wiring cabinet

Ref.	Description
1	Control cabinet lamp switch
2	Control cabinet lamp
3	Control module
4	Time counter
5	Key switch
6	Main circuit breaker
7	Live wire terminals
8	Neutral wire terminal
9	Ground wire terminal
10	Mains input/remote communication connector

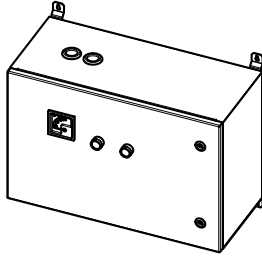


Control module

Ref.	Description
a	Navigation button«» Accept (Configuration mode only)
b	Main status display
c	Stop/reset button«» Next page (Configuration mode only)
d	Auto start button«» Decrease value/next item (Configuration mode only)
e	Start button«» Increase value/next item (Configuration mode only)

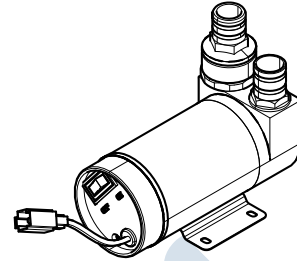
6 Optional Accessories

1. ATS Cabinet



- Adopt advanced ATS with high quality
- High reliability, high stability, ease of operation

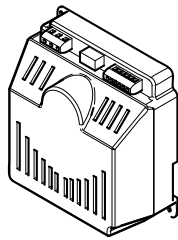
2. Automatic Oil Drain Pump



- Drain the oil from engine automatically
- Easy to operate with inching switch

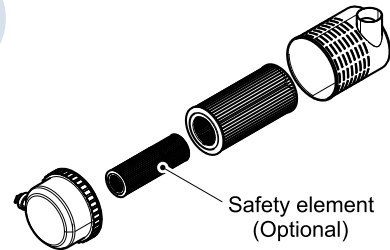
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3. Battery Charger



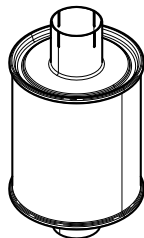
- Switch power supply structure, wide input alternating voltage range, small size, light weight, high efficiency rate
- Short-circuit protection

4. Double Layer Air Filter



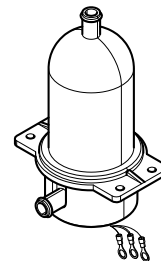
- Air filter with safety element
- High filtration precision and filtering ability

5. Spark Arrestor



- Any explosive exhaust particles can be captured in dangerous environment.

6. Water Jacket Preheat Unit



- Water jacket preheat unit should be used to start the engine quickly if the temperature is lower than 5°C
- The preheat unit is equipped with a thermostat

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