

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance European (CE)
- China Compulsory Certification (CCC)
- ISO8528-5:2005
- GB/T2820.5-2009

Environmental Operating Conditions

- Installation place: Outdoors or indoors (well ventilated).
- Ambient temperature: -25°C to 45°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.

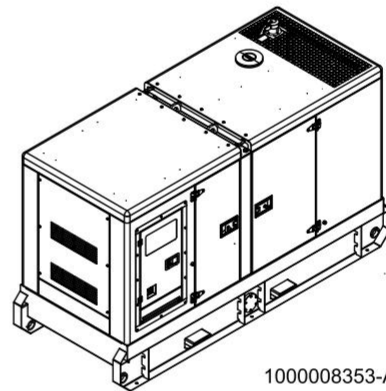
2 General Features

- Perkins engine 1104A-44TG2
- Close coupled to a Leroy Somer alternator LSA43.2L8
- Microprocessor control module PLC-702
- NADER main circuit breaker: 125A
- 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 forkslots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 9 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

General technical data



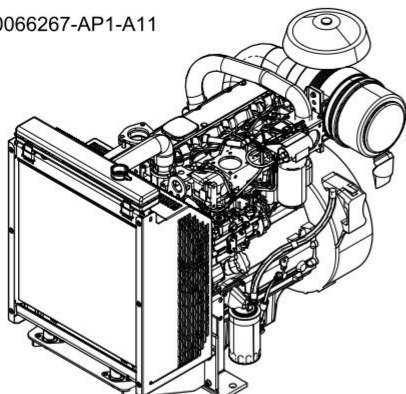
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Model.....P80D5
 Structure type R
 Tank capacity.....180L
 Dry weight.....1705kg
 Noise level @7m 68.1dBA
 Dimensions L×W×H..... 2788x1130x1700mm
 Standby Power 83.75kVA/67kW
 Prime Power 80kVA/64kW

Voltage	380V	400V	415V	440V	
Ampere	121.6A	115.5A	111.3A	104.9A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	5.2	9.7	14.0	18.7	20.5

Diesel Engine

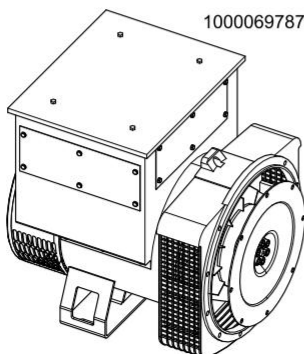
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Engine Manufacturer/Brand.....	Perkins
Engine Model.....	1104A-44TG2
Dimensions L×W×H.....	1241×629×951mm
Dry Weigh (approx.)	463kg
Number of Cylinders.....	4
Bore.....	105mm
Stroke	127mm
Displacement.....	4.4L
Compression Ratio.....	17.25
Type of Injection	Direct
Intake System.....	Turbocharged
Intake Resistance.....	≤8.0kPa
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
Back Pressure	≤10kPa
Standby Powe	80.7kW
Prime Power	73.4kW
Fuel Consumption(100%load).....	18.7L/h

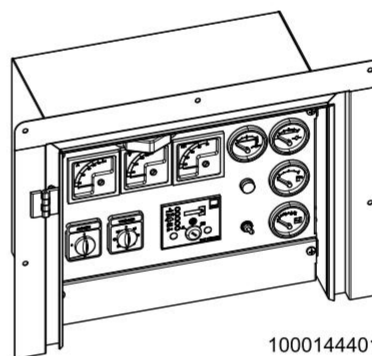
Alternator

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Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA43.2L8
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.....	0.27m³/s(50Hz),0.32m³/s(60Hz)
Voltage Regulation	±0.5%
Total harmonic TGH / THC at no load < 2 % - on load < 2%	
Telephone Interference.....	THF<2%;TIF<50

PLC-702 Control System



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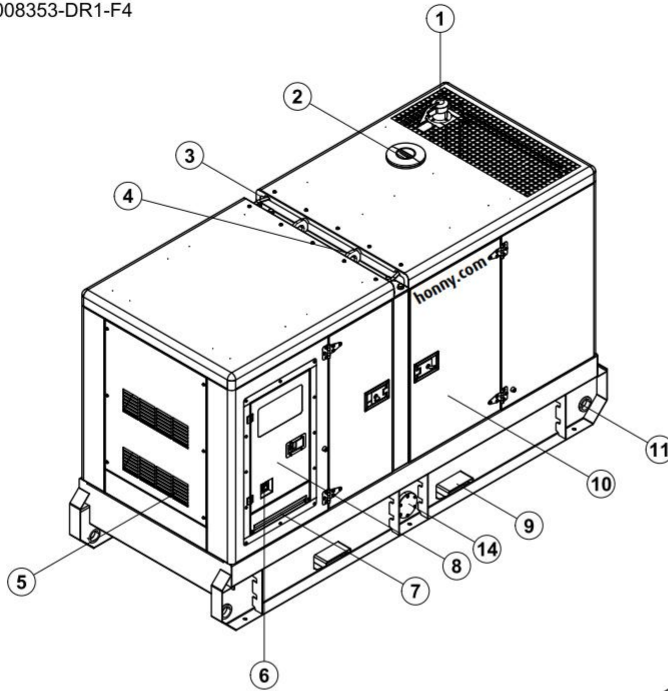
PLC-702 key manual start module is a manual engine control module designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault 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

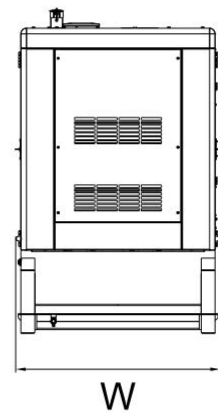
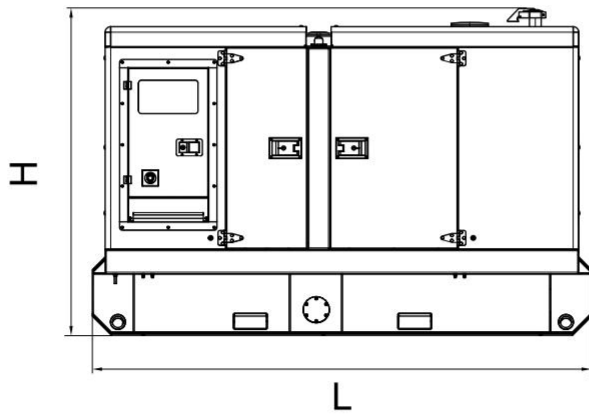
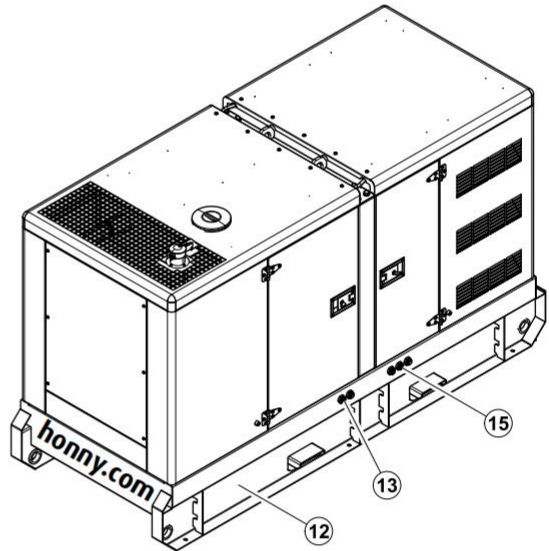
4 Overall Dimensions

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Dry weight	1705kg
Fuel tank capacity	180L
Dimensions L x W x H	2788x1130x1700mm

- ⑧ Control cabinet
- ⑦ Cable trench
- ⑥ Emergency stop switch
- ⑤ Air inlet
- ④ Lifting lug
- ③ Roping lug
- ② Coolant inlet
- ① Exhaust gas outlet
- ⑮ Coolant/oil drain hose fitting
- ⑭ Fuel drain
- ⑬ External fuel inlet/return hose fitting
- ⑫ Base frame
- ⑪ Tie down
- ⑩ Access door
- ⑨ Fork lift channel

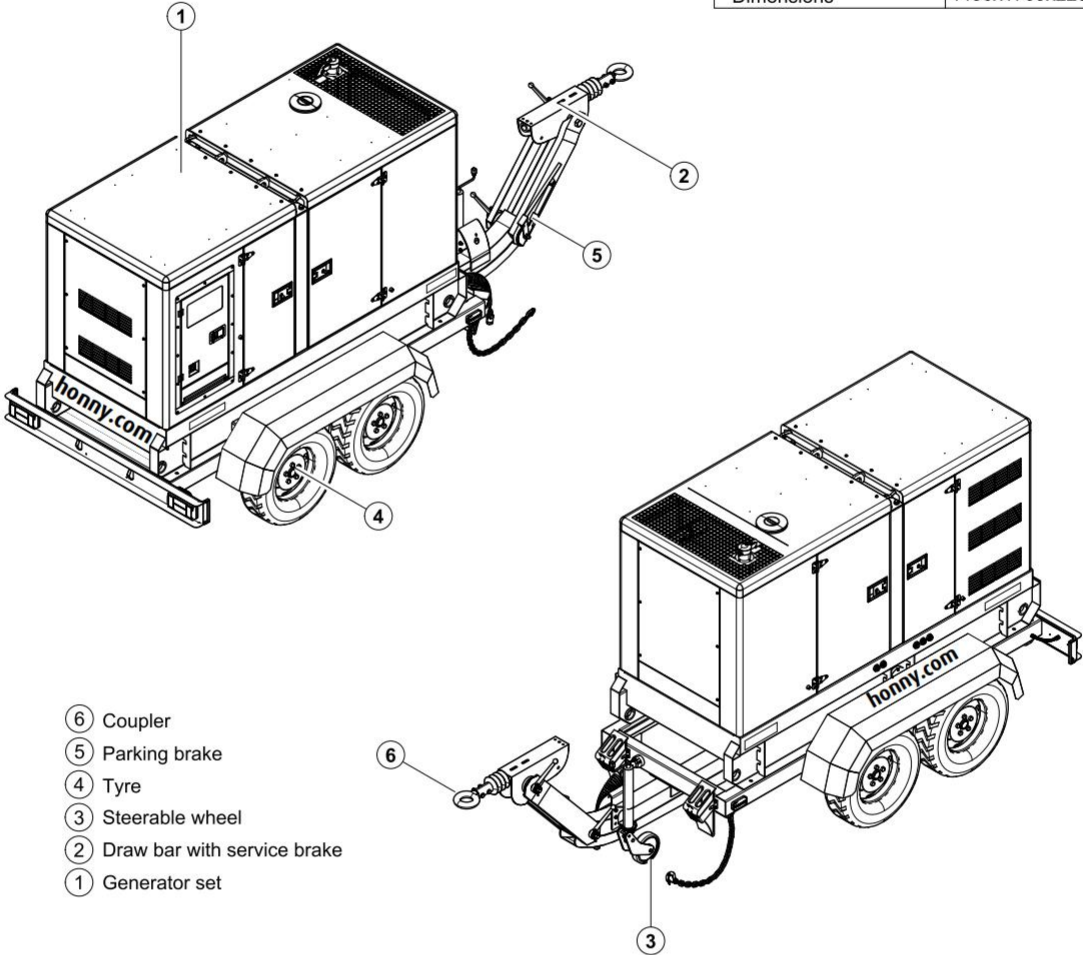


6 Trailer (Option)

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 **HIGHWAY TYPE**

Dry weight (with trailer)	2273kg
Towing speed	≤ 80km/h
Tyre size	185R14LT
Dimensions	4456x1709x2285mm



- ⑥ Coupler
- ⑤ Parking brake
- ④ Tyre
- ③ Steerable wheel
- ② Draw bar with service brake
- ① Generator set

