



STANDBY RANGE

100kVA / 80kW 400v 3-PHASE

Noise Level:

72dB(A) at 7m in free field conditions.

Emissions Class:

Non-emissions certified

Connection Type:

Hard-Wired – optional sockets available

Typical Application:

Standby duty, permanent installation, commercial & private residences



**WATER
COOLED**



**3
PHASE**



**50HZ
400V**



**DIESEL
FUEL**

GENERATING SET MODEL

Output rating	Prime	Standby
50HZ 400V, 1500RPM	100kVA	110kVA
	80kW	88kW

ENGINE TECHNICAL DATA

Engine make:	Depco
Engine model:	48ETD100
Governing type:	Electrical
Number of cylinders:	4
Cylinders arrangement:	In-line
Bore and stroke:	108 x 132
Displacement:	4.8
Aspiration:	Turbo
Cycle:	4-Stroke
Compression ratio:	16.1:1
Cooling system:	Water Cooled
Frequency & engine speed:	50HZ & 1500RPM

	Prime	Standby
Gross engine power	88kW	-
Fuel consumption @ 100% L/hr	22	-
Fuel consumption @ 50% L/hr	-	-

ALTERNATOR DATA

Make:	Depco
Model:	D-72-3
No. of Bearings	1
Insulation Class	H
Ingress Protection	IP23
Excitation System	Shunt
Voltage	±1%

DIMENSIONS

Length (mm):	3700
Width (mm):	1050
Height (mm):	1250
Weight* Kg:	1550
Fuel tank capacity:	159 Liters

CONTROL PANEL

Make:	Datakom
Model:	D100

RATINGS DEFINITION

Prime Power

This rating is applicable for supplying continuous power (at variable load average 70%) in lieu of commercially purchased power. A 10% overload is available for 1 hour in any 12-hour continuous operation

Standby Power

This rating is applicable for supplying continuous power (at variable load) in the event of a utility power failure. No overload if permitted.

STANDARD CONDITIONS

The rating and power outputs are at the standard reference conditions of 27C air inlet temperature, barometric pressure 100kpa and relative humidity of 30%.

The unit will operate at much higher temperatures and pressures but a derate will apply.

AVAILABLE OPTIONS

Coolant Heater

To ensure fast start and load acceptance

Battery Charger

To keep the starting battery in charged condition.

Three Way Valves

Three Way Valves – for easy connection of an external tank.

Control Panel Upgrades

Control Panel Upgrades – BMS monitoring, remote monitoring, synchronizing.

External Tank Option

External Tank Options – any size supplied and installed.

Ultra Low Noise Level Canopies

Ultra Low Noise Level Canopies – special canopy or container options for sensitive applications.

Automatic Transfer Switches

Automatic Transfer Switches – for starting and transferring the load when the mains power is lost.

Alternator Auxiliary Winding (arep)

For motor starting applications.

WARRANTY



This generator is covered under warranty for 12 months or 1000 hours whichever occurs first. Extended warranty may be available – please ask us for more details.

STANDARD SPECIFICATION

Engine

Heavy Duty, four stroke, water cooled diesel engine running at 1500rpm

Fuel System

Engine driven fuel injector pump with full flow filters (water separator optional)

Cooling System

Water cooled with engine driven fan. Fully guarded and designed to cool at high ambient temperatures.

Exhaust System

Heavy duty residential grade silencer installed within the canopy. Lagged to prevent heat pick-up.

Output Circuit Breaker

Delixi Brand output MCCB, fixed type, 3 pole.

Anti-vibration Mount

Engine and alternator are mounted on AVM's to provide damping of vibrations into the ground.

Coupling

The engine and alternator are close-coupled with a SAE semi-flexible flange.

Safety Guards

The cooling fan drive and moving parts are guarded to prevent personal injury.

Fuel Tank

A large capacity fuel tank is included within the base tank with filler cap, breather, fuel feed and drain lines.

Alternator

Single bearing with class H insulation. All windings are impregnated with a triple dip thermosetting liquid polyester varnish or vacuum pressure coated polyester resin.

Automatic Voltage Regulator (AVR)

Fully sealed automatic voltage regulator maintains the voltage regulation at $\pm 1\%$