



## STANDBY RANGE

### 60kVA / 48kW 400V 3-PHASE

**Noise Level:**

70dB(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 | 60kVA | 66kVA   |
|                    | 48kW  | 53kW    |

## ENGINE TECHNICAL DATA

|                           |                |
|---------------------------|----------------|
| Engine make:              | FAWDE          |
| Engine model:             | 4DX23-78D      |
| Governing type:           | Electrical     |
| Number of cylinders:      | 4              |
| Cylinders arrangement:    | In-line        |
| Bore and stroke:          | 102 X 118      |
| Displacement:             | 3.86           |
| Aspiration:               | Turbocharged   |
| Cycle:                    | 4-Stroke       |
| Compression ratio:        | 17 : 1         |
| Cooling system:           | Water Cooled   |
| Frequency & engine speed: | 50HZ & 1500RPM |

**Prime Standby**

|                              |      |   |
|------------------------------|------|---|
| Gross engine power           | 57kW | - |
| Fuel consumption @ 100% L/hr | 14.9 | - |
| Fuel consumption @ 50% L/hr  | -    | - |

## ALTERNATOR DATA

|                     |         |
|---------------------|---------|
| Make:               | Depco   |
| Model:              | DPC224E |
| No. of Bearings:    | 1       |
| Insulation Class:   | H       |
| Ingress Protection: | IP23    |
| Excitation System:  | Shunt   |
| Voltage:            | ±1%     |

## DIMENSIONS

|                     |      |
|---------------------|------|
| Length (mm):        | 2450 |
| Width (mm):         | 950  |
| Height (mm):        | 1200 |
| Weight* Kg:         | 1120 |
| Fuel tank capacity: | 125  |

## CONTROL PANEL

|        |         |
|--------|---------|
| Make:  | Deepsea |
| Model: | DSE6120 |

## 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

## 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  $\pm 1\%$