



## RENTAL RANGE

### 20kVA / 16kW 400V THREE PHASE

**Noise Level:**

68dB(A) at 7m in free field conditions.

**Emissions Class:**

Stage V Emissions Certified

**Connection Type:**

Hard-Wired & Sockets 1 x 16A + 1 x 32A 3 phase

**Typical Application:**

Mobile rental, events, construction, low emissions



**WATER  
COOLED**



**3  
PHASE**



**50HZ  
400V**



**DIESEL  
FUEL**

### GENERATING SET MODEL

<b>Output rating</b>	Prime	Standby
<b>50HZ 400/230V, 1500RPM</b>	19kVA	20kVA
	15kW	16kW

### ENGINE TECHNICAL DATA

<b>Engine make:</b>	RAYWIN
<b>Engine model:</b>	4D20G01/5
<b>Governing type:</b>	ECU / ELEC
<b>Number of cylinders:</b>	4
<b>Cylinders arrangement:</b>	In-line
<b>Bore and stroke:</b>	81 X 97
<b>Displacement:</b>	1.99 (L)
<b>Aspiration:</b>	NA
<b>Cycle:</b>	4-Stroke
<b>Compression ratio:</b>	17.5 : 1
<b>Cooling system:</b>	Water Cooled
<b>Frequency &amp; engine speed:</b>	50HZ & 1500RPM

	Prime	Standby
<b>Gross engine power</b>	18.8kW	-
<b>Fuel consumption @ 100% L/hr</b>	4.8	-
<b>Fuel consumption @ 50% L/hr</b>	-	-

### ALTERNATOR DATA

<b>Make:</b>	Stamford
<b>Model:</b>	SOL2-M1
<b>No. of Bearings</b>	1
<b>Insulation Class</b>	H
<b>Ingress protection</b>	IP23
<b>Excitation system</b>	Shunt
<b>Voltage</b>	±1%

### DIMENSIONS

<b>Length (mm):</b>	2280
<b>Width (mm):</b>	1050
<b>Height (mm):</b>	1250
<b>Weight* Kg:</b>	1050
<b>Fuel tank capacity:</b>	108 Litres

### CONTROL PANEL

<b>Make:</b>	Deepsea
<b>Model:</b>	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 even 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 starter battery in a 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 +-1%