

# Redstar Prime Mobile - 20

PRIME POWER GENERATOR Three Phase



## SPECIFICATIONS

### CONTROLLER

### KEY START

### MODEL

RPM - 20

Power

Pf. 0.8

Standby

22 kVA

Prime

20 kVA

### ENGINE

Make & Model

Kubota V2203-E2B

Type

Swirl chamber

Output Rating

18.4 kW

Rated Speed min-1

1500

No. of Cylinders-Bore X Stroke

4-87 x 92.4 mm

Piston Displacement

2.197 L

Fuel

ASTM No. 2 diesel or equivalent

Fuel Tank Capacity

62 L

Fuel Consumption at 50,75 & 100 L/hr

2.9, 3.9 & 5.11

Lube Oil Capacity

7.6 L

Coolant Capacity

7.9 L

Battery x Quantity

12V – 65 AHx1

### ALTERNATOR - DENYO

Frequency

50 Hz

Output Prime/Standby

20/22 KVA

No. of Poles

4

No. of Phases

Three Phase 4 wire

Rated Voltage

380/400/415

Power Factor (lagging)

0.8

Voltage Regulation %

±0.5

Excitation

Brushless, rotating exciter  
(with A.V.R.)

Insulation

Class F

### UNIT

Dimensions (L/W/H mm)

1540 x 650 x 1050

Dry Weight

640 KG

dBa 1 & 7m:

72.6 & 62

### General

The DCA series generators are complete, stand alone generating sets. All models consist of an alternator which is directly coupled to a diesel engine. The alternator and engine are set on a common skid base. Special Vibration isolators are used to minimize vibrations during operation. The generator and electrical components are fully enclosed in a solid steel, weatherproof canopy. Noise suppression is achieved by using highly effective sound insulation materials.

### 50Hz/60Hz Operation

The DCA series can be operated at either 50Hz or 60Hz by simply adjusting the engine speed using the throttle control knob on the control panel.

### Auto Fuel Air Extractor

Air trapped in the fuel system can be troublesome, however, with the DCA series, fuel air extraction is automatically performed by simply operating the starter switch, without the need for tools or devices. There is no soiling of the machines interior or the operator's hands and the outflow of fuel to the machines exterior is prevented. The machine will start after the engine is turned over a few times.

### Extremely Quiet Operation

In urban areas and at the worksite, there is an ever increasing demand for reduced noise. The DCA series generators are extremely quiet when operating at full load.

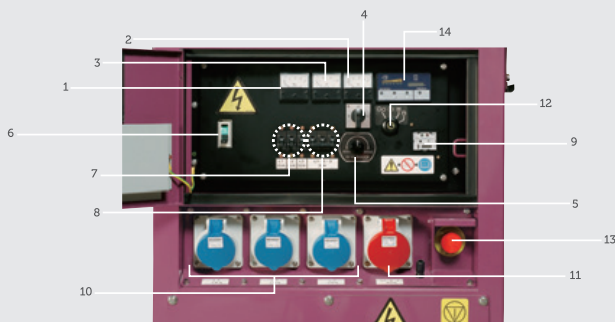
### Clean engines

The engines used in these generators meet all Californian Atmospheric Pollution standards, which is one of the world's most stringent antipollution standards. This is achieved by using a PCV purge control valve system. Therefore, these engines do not discharge blow-by gas to the outside, which keeps the interior of the machine cleaner and the exhaust emissions are minimized.

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## Control Panel with Outstanding User-Friendliness

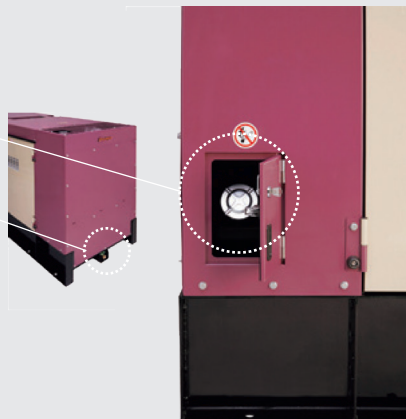
Denyo's generators feature a functional panel layout that can be easily operated even by first-timers.



- |  |  |
|--|--|
| 1. FREQUENCY METER.                          | 2. AC AMMETER.                               |
| 3. AC VOLTMETER.                             | 4. AMMETER CHANGE OVER SWITCH.               |
| 5. VOLTAGE REGULATOR.                        | 6. CIRCUIT BREAKER (FOR MAIN).               |
| 7. CIRCUIT BREAKER (FOR 1-PHASE RECEPTACLE). | 8. CIRCUIT BREAKER (FOR 3-PHASE RECEPTACLE). |
| 9. EARTH LEAKAGE RELAY                       | 10. 1-PHASE RECEPTACLE.                      |
| 11. 3-PHASE RECEPTACLE.                      | 12. STARTER SWITCH                           |
| 13. EMERGENCY STOP BUTTON                    | 14. ENGINE MONITOR                           |

## Consideration for the Global Environment

- Compliant with the EU's exhaust gas regulations (Stage II or Stage III).
- Comes with an environmental base to catch spilled fuel and oil and stop it from leaking out of the generator (accumulated fuel and oil can be discharged through a drain with a single touch).
- The fill opening features a structure that prevents fuel from leaking outside the generator even if it is spilled when fueling.



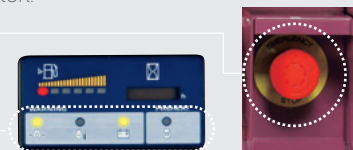
## Easy Maintainability

Routine maintenance is easy with Denyo's generators. Engine oil, the battery, and coolant are all checked at one location. When conducting repairs or maintenance, the fuel tank comes in and out easily for cleaning by removing the front cover. The radiator can also be cleaned easily.



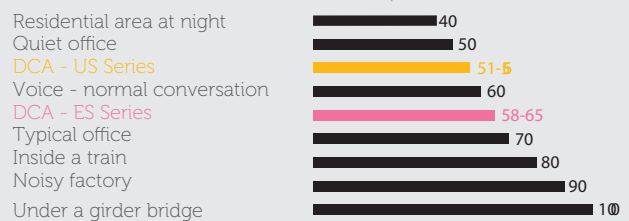
## Consideration for Safety

- Breakers compliant with CE marking.
- Warning lamp indicates on the engine monitor when something is wrong or automatically shuts the engine down.
- Emergency stop button.



## Quiet Operation

Noise comparison (7m/no load) Unit: dB(A)



Denyo's generators run quietly thanks to the Company's original soundproofing technology. The Ultra Soundproof Type in particular features a low-noise engine, low-noise fan, the addition of a silencer, and special structures such as changes to the hood shape, which create a low noise level similar to that of a quiet office.