



| Genset Specification |             |        |
|----------------------|-------------|--------|
| Prime Power          | 60 KW       | 75 KVA |
| Standby Power        | 68 KW       | 85 KVA |
| Rate Voltage         | 220 / 127 V |        |
| Power Factor         | 0.8         |        |
| Rate Speed           | 1800 RPM    |        |
| Frequency            | 60 HZ       |        |

| Dimension and Weight |          |
|----------------------|----------|
| Length (L)           | 2500 mm  |
| Width (W)            | 1000 mm  |
| Height (H)           | 1250 mm  |
| Fuel Tank            | 75 L     |
| Fuel Consumption     | 17 L / h |
| Weight               | 1020 Kg  |

### • PRP (Prime Power):

Prime power is defined as being the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year. The permissible average power output during at 24 hours period shall not exceed 70% of the prime power. 10% overload available for governing purposes only.

### • ESP (Standby Power):

Emergency standby power is defined as the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year available. The permissible average power output during at 24 hours period shall not exceed 70% of the ESP.

## POWER GENERATOR

## MODEL DCA-85FGDD-II

### Engine Specification

|                   |              |
|-------------------|--------------|
| Engine Brand      | Cummins      |
| Engine Model      | 4BTA3.9-G2   |
| No. of cylinders  | 4            |
| Displacement (L)  | 3.9          |
| Governor Type     | Electrical   |
| Compression ratio | 18:1         |
| Bore (mm)         | 102          |
| Stroke (mm)       | 120          |
| Cooling method    | Water        |
| Speed (RPM)       | 1800         |
| Aspiration        | Turbocharger |
| Mechanical power  | 67 KWm       |
| Oil specification | CF4          |
| Configuration     | In-Line      |
| Starting method   | DC24V Motor  |

### Generator Specification

|                   |              |
|-------------------|--------------|
| Brand             | Diesel       |
| Model             | DSR224F      |
| No. of Bearing    | 1            |
| Wiring            | 12           |
| Insulation Class  | H            |
| Tem. Rise Class   | H            |
| IP rating         | IP23         |
| Power factor      | 0.8          |
| Excitation system | Self-excited |
| Speed (RPM)       | 1800         |
| Voltage regulator | AVR          |

## CONTROL PANEL



- DSE6120 controller
- Volts, current, frequency, rpm (instruments)
- Gen set running hours
- Battery voltage and charging
- Over speed pre-alarm & shutdown
- High water temp. pre-alarm & shutdown
- Low oil pressure pre-alarm & shutdown
- Low / high voltage pre-alarm & shutdown Overcurrent pre-alarm & shutdown

## **= STANDARD SPECIFICATION**

- Four stroke heavy duty high performance industrial diesel engine with radiator
- Brushless alternators (Class H, with AVR.)
- Heavy duty rubber anti-vibration mountings
- Starter batteries and connecting cables
- Battery Charger
- Heavy duty industrial silencer
- With air filter, oil filter, fuel filter
- MCB or MCCB type outlet breaker
- Fully welded steel base frame
- DataKom D100 controller
- Factory test certificate
- Operation & Maintenance manual & Electrical wiring diagrams
- Worldwide product /Technical support
- Meet standard BS4999, BS5000, BS5514, IEC60034, VDE0530 AND ISO8528

### **Optional**

- Engine: Jacket water pre-heater
- Alternator: Anti-condensation heater
- Fuel system: Fuel / water separator
- Electrical system: ATS, industrial outlet socket, controlle

### **Warranty**

All of the generating set are under warranty against defects in materials and workmanship for period 1 year or 1000 hours operation time whichever come first from the date of delivery (except the damageable spare parts of genset caused by incorrect man-made operation), and that the aforementioned warranty for the same token is back up by the engine & alternator manufactures and their global distributors.token is back up by the engine & alternator manufactures and their global distributors.