

# DG18KSEm

## Diesel Generator

### Single Phase



Model: **DG18KSEm**  
 Frequency: **50Hz**  
 Fuel type: **Diesel**  
 Phase: **Single**  
 Standby: **18kVA**

- Reliable heavy-duty industrial diesel and low emissions engine
- Standard ComAp electronic control system with remote start/stop function
- Sound reduced and weather protected enclosure
- Comprehensive warranty and service

#### TECHNICAL SPECIFICATIONS

| Model                           | DG18KSEm      |   |               |               |
|---------------------------------|---------------|---|---------------|---------------|
| Prime Power                     | kVA/kW        | 16/16                                     |               |               |
| Standby Power                   | kVA/kw        | 18/18                                     |               |               |
| Power Factor                    |               | 1   |               |               |
| Rate Voltage                    | V             | 230                                       |               |               |
| Fuel Consumption                | Kg/hour       | Fuel consumption100% (of the Prime Power) | 5.6           |               |
|                                 |               | Fuel consumption75% (of the Prime Power)  | 4.3           |               |
|                                 |               | Fuel consumption50% (of the Prime Power)  | 3.2           |               |
|                                 |               | Fuel consumption25% (of the Prime Power)  | 1.9           |               |
| Fuel Tank Capacity (Base Frame) | Litre         | 77.5                                      |               |               |
| Running Time                    | Hour          | 12.5                                      |               |               |
| Noise Level                     | dB(A)@7m      | 69  |               |               |
| Dimensions and Weight           | <b>Length</b> | <b>Width</b>                              | <b>Height</b> | <b>Weight</b> |
|                                 | 1900 mm       | 900 mm                                    | 1120 mm       | 820 kg        |

#### ENGINE SPECIFICATIONS

|                       |                |
|-----------------------|----------------|
| Model                 | D490           |
| Engine Speed Rated    | 1500 RPM       |
| Cylinder /Arrangement | 4 / Inline     |
| Displacement          | 2.5 mm         |
| Bore and Stroke       | 90 mm × 100 mm |
| Compression Ratio     | 17.5           |
| Aspiration            | Natural        |
| SAE                   | 4/7.5          |
| Lubricant Capacity    | 6 L            |
| Cooling               | Water          |

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## ALTERNATOR SPECIFICATIONS

|                  |                           |
|------------------|---------------------------|
| Model            | 184E                      |
| Structure        | Single Bearing, Brushless |
| Excitation Mode  | Self Excitation           |
| Protection Class | IP23                      |
| Insulation Class | H                         |
| TIF              | >50                       |
| THF              | <2%                       |
| Air Flow         | 0.095 m <sup>3</sup> /s   |
| AVR model        | SX460                     |

## EXHAUST SYSTEM

|                         |                         |
|-------------------------|-------------------------|
| Exhaust Gas Flow        | 6.5 m <sup>3</sup> /min |
| Exhaust Gas Temperature | 400°C                   |
| Max Back Pressure       | 5 kPa                   |

## AIR SYSTEM

|                 |                         |
|-----------------|-------------------------|
| Engine Air Flow | 2.3 m <sup>3</sup> /min |
|-----------------|-------------------------|

## COOLANT SYSTEM

|                  |       |
|------------------|-------|
| Coolant Capacity | 10.2L |
|------------------|-------|

Note: All data sheets are for reference only and subject to change without prior notice.

## CONTROL PANEL

|            |       |
|------------|-------|
| InteliLite | MRS10 |
|------------|-------|

### KEY FEATURES

- Compact gen-set controller for single operating genset
- Manual and remote start capability
- Full gen-set monitoring and protection
- Multiple languages (user changeable) in controller
- Plug-in module concept for more capabilities (RS232, RS485, USB and Internet)
- True RMS measurement
- 6 binary outputs, 6 binary inputs, 3 configurable analog inputs
- Fault history



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