

# DIESEL GENSET - 50 HZ

## AIR CHARGE-AIR COOLING

800 - 880 kVA  
400V

### BENEFITS

- // Low installment cost
- // Best fuel consumption values
- // Long maintenance intervals
- // High-efficiency components
- // Best-in-class reliability and availability



### SYSTEM RATINGS

#### Standby Power

| Genset Type | Engine Type  | Nominal Rating    |                   | Emissions      |
|-------------|--------------|-------------------|-------------------|----------------|
|             |              | kVA <sup>1)</sup> | kVA <sup>2)</sup> |                |
| DS 880 D5S  | 12V 2000 G65 | 880*              | 850               | Fuel optimized |

#### Prime Power

| Genset Type | Engine Type  | Nominal Rating    |                   | Emissions              |
|-------------|--------------|-------------------|-------------------|------------------------|
|             |              | kVA <sup>1)</sup> | kVA <sup>2)</sup> |                        |
| DP 800 D5S  | 12V 2000 G65 | 800*              | 770               | Fuel optimized/TA-Luft |

\* Adjustment of fan power demand required

#### // REFERENCE CONDITIONS

|                           |                |                 |
|---------------------------|----------------|-----------------|
| Ambient air temp.:        | 1) 25°C (77°F) | 2) 40°C (104°F) |
| Charge air coolant temp.: | 55°C (131°F)   | 55°C (131°F)    |
| Ambient air pressure:     | 1000 mbar      | 1000 mbar       |
| Altitude above sea level: | 100 m          | 400 m           |

#### // ENGINE DATA

|                     |  |
|---------------------|--|
| Bore/Stroke         | 130/150 mm (5.1/5.9 in)                    |
| Cyl. configuration  | 90°V                                       |
| Cyl. displacement   | 1.99 lit. (121 cu in)                      |
| Displacement, total | 12V: 23.9 lit. (1458 cu in)                |
| Fuel specification  | EN 590, Grade No.1-D/2-D<br>(ASTM D975-00) |

| Application | Definition  |
|-------------|---|
| <b>3B</b>   | <b>Prime Power</b><br>Continuous operation with variable load |
| <b>3D</b>   | <b>Standby Power</b><br>Standby operation with variable load  |

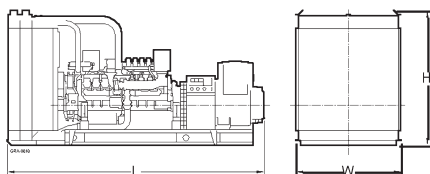
Load factor: < 75 %  
 Operating hours/year: unrestricted  
 Overload: 10 % capability (ICXN)

Load factor: < 85 %  
 Operating hours/year: max. 500  
 Overload: Fuel stop power (IFN)

Gensets available also with Water Charge Air Cooling

All Gensets are available with optional Voltages 380V and 415V. Ratings can variate please contact your MTU distributor.

|  | Fuel Optimized     |              | Emission Optimized |
|--|--------------------|--------------|--------------------|
|  | Standby            | Prime        | Prime              |
| Genset Type                              | DS880D5SFA         | DP800D5SFA   | DP800D5SFA         |
| Engine Type                              | 12V 2000 G65       | 12V 2000 G65 | 12V 2000 G65       |
| Generator Type                           | 574RSL7036         | 574RSL7036   | 574RSL7036         |
| <b>Fuel Consumption *</b>                |                    |              |                    |
| 100% load                                | g/kWh (l/h)        | 203 (187)    | 202 (169)          |
| 75% load                                 | g/kWh (l/h)        | 202 (140)    | 203 (127)          |
| 50% load                                 | g/kWh (l/h)        | 208 (96)     | 210 (88)           |
| <b>Mechanical Radiator, unit-mounted</b> |                    |              |                    |
| Max. air temp. on fan                    | °C                 | 45           | 45                 |
| Ambient temperature                      | °C                 | 40           | 40                 |
| Fan air flow                             | m <sup>3</sup> /s  | 17.7         | 16.9               |
| Air flow restriction                     | Pascal             | 200          | 200                |
| <b>Air Intake</b>                        |                    |              |                    |
| Intake air depression                    | mbar               | 15           | 15                 |
| Intake air flow                          | m <sup>3</sup> /s  | 0.9          | 0.85               |
| <b>Exhaust System</b>                    |                    |              |                    |
| Exhaust gas flow                         | m <sup>3</sup> /s  | 2.05         | 2.3                |
| Exhaust gas temperature                  | °C                 | 565          | 555                |
| Exhaust back pressure                    | mbar               | 50           | 50                 |
| <b>Generator</b>                         |                    |              |                    |
| Temperature rise                         | Deg K              | 125 (H)      | 125 (H)            |
| <b>Lube System</b>                       |                    |              |                    |
| Engine oil capacity                      | l                  | 74           | 74                 |
| <b>Emissions</b>                         |                    |              |                    |
| NOx                                      | mg/Nm <sup>3</sup> | -            | -                  |
| CO                                       | mg/Nm <sup>3</sup> | -            | -                  |
| HC                                       | mg/Nm <sup>3</sup> | -            | -                  |
| Dust                                     | mg/Nm <sup>3</sup> | -            | -                  |
| Air born noise level at 1m               | dB(A)              | 100          | 100                |
| Exhaust noise level at 1 m               | dB(A)              | 110          | 109                |
| <b>Genset</b>                            |                    |              |                    |
| Lengths                                  | mm                 | 4520         | 4520               |
| Widths                                   | mm                 | 1710         | 1710               |
| Height                                   | mm                 | 2251         | 2251               |
| Total Weight wet                         | kg                 | 6110         | 6110               |



All ratings include power requirement for mechanical driven cooling fan.

\* Values referenced are in accordance with ISO 3046-1. Conversion calculated with fuel density of 0.83 g/ml.

Note: This drawing is provided for reference only and should not be used for planning installation. Please contact your local distributor for more detailed information.

Materials and specifications subject to change without notice.