# DIESEL GENSET - 50 HZ
# WATER CHARGE-AIR COOLING

## 1290 - 1445 kVA
## 400V

## BENEFITS

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

## SYSTEM RATINGS

### Prime Power

| Genset Type | Engine Type | Nominal Rating | Emissions |
|---|---|---|---|
| | | kVA | |
| DP 1290 D5S | 12V 4000 G21R | 1290 | Fuel optimized, TA-Luft |

### Standby Power

| Genset Type | Engine Type | Nominal Rating | Emissions |
|---|---|---|---|
| | | kVA | |
| DS 1445 D5S | 12V 4000 G21R | 1445 | Fuel optimized |

### // REFERENCE CONDITIONS

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

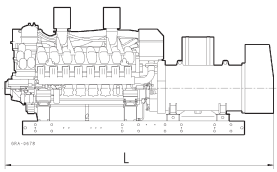
### // ENGINE DATA

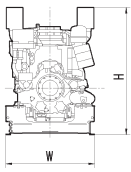
| | |
|---|---|
| Bore/Stroke | 165/190 mm (6.5/7.5 in) |
| Cyl. configuration | 90°V |
| Cyl. displacement | 4.06 lit. (248 cu in) |
| Displacement, total | 12V: 48.7 lit. (2972 cu in) |
| Fuel specification | EN 590, Grade No.1-D/2-D (ASTM D975-00) |

| Application | Definition | |
|---|---|---|
| **3B** | **Prime Power**<br>Continuous operation with variable load | Load factor: < 75 %<br>Operating hours/year: unrestricted<br>Overload: 10 % capability (ICXN) |
| **3D** | **Standby Power**<br>Standby operation with variable load | Load factor: < 85 %<br>Operating hours/year: max. 500<br>Overload: Fuel stop power (IFN) |

All Gensets are available with optional voltages 380V and 415V. Ratings can variate please contact your MTU distributor.
Rated Power available up to 40°C/400m and Charge- air coolant temperature for fuel optimized: 70°C or for TA-Luft: 55°C.

| | | Fuel Optimized | TA-Luft | Fuel Optimized |
|---|---|---|---|---|
| | | Prime Power | | Standby Power |
| Genset Type | | DP1290D5S | DP1290D5S | DS1445D5S |
| Engine Type | | 12V 4000 G21R | 12V 4000 G21R | 12V 4000 G21R |
| Generator type | | 742RSL7048 | 742RSL7048 | 742RSL7050 |
| **Fuel Consumption** * | | | | |
| 100% load | g/kWh (l/h) | 199 (264) | 220 (292) | 197 (288) |
| 75% load | g/kWh (l/h) | 203 (202) | 217 (216) | 201 (220) |
| 50% load | g/kWh (l/h) | 208 (138) | 215 (143) | 211 (154) |
| **Electrical Radiator**** | | | | |
| Max. air temp. on fan | °C | 45 | 45 | 45 |
| Ambient temperature | °C | 40 | 40 | 40 |
| Fan air flow | $m^3/s$ | 20.86 | 26.85 | 20.86 |
| Air flow restriction | Pascal | 200 | 200 | 200 |
| **Air Intake** | | | | |
| Intake air depression | mbar | 30 | 30 | 30 |
| Intake air flow | $m^3/s$ | 1.5 | 1.8 | 1.6 |
| **Exhaust System** | | | | |
| Exhaust gas flow | $m^3/s$ | 3.5 | 4.4 | 3.8 |
| Exhaust gas temperature | °C | 493 | 498 | 495 |
| Exhaust back pressure | mbar | 30 | 30 | 30 |
| **Generator** | | | | |
| Temperature rise (Insulation Class H) | °C | 125 | 125 | 125 |
| **Lube System** | | | | |
| Engine oil capacity | l (gal) | 260 (69) | 260 (69) | 260 (69) |
| **Emissions** | | | | |
| NOx | $mg/Nm^3$ | - | 2000 | - |
| CO | $mg/Nm^3$ | - | 650 | - |
| Dust | $mg/Nm^3$ | - | 130 | - |
| Air born noise level at 1m | dB(A) | 106 | 106 | 107 |
| Exhaust noise level at 1 m | dB(A) | 115 | 115 | 116 |
| **Genset** | | | | |
| Lengths | mm (in) | 3995 (157) | 3995 (157) | 3995 (157) |
| Widths | mm (in) | 1690 (67) | 1690 (67) | 1690 (67) |
| Height | mm (in) | 2427 (96) | 2427 (96) | 2427 (96) |
| Total Weight, wet | kg (lbs) | 10457 (23054) | 11084 (24436) | 9280 (20459) |
| Genset convection heat incl. 10m exhaust pipes | kW (bhp) | 110 (148) | 110 (148) | 121 (163) |




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

** Optional scope: Radiator with electrical fan drive for front or remote installation. Connection parts for front installation available as option.

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.

Subject to change. | 3233681 | 1/09 | VMD 2009-12.

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