

# DIESEL GENSET - 50 HZ

## WATER CHARGE-AIR COOLING

2610 - 3075 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 kVA	Emissions
DP 2610 D5S	20V 4000 G23	2610	Fuel optimized, TA-Luft*
DP 2870 D5S	20V 4000 G63	2870	Fuel optimized*, TA-Luft <sup>1)</sup>
DP 3075 D5S	20V 4000 G63L	3075	Fuel optimized*, TA-Luft <sup>2)</sup>

#### // 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	170/210 mm (6.7/8.3 in)
Cyl. configuration	90°V
Cyl. displacement	4.77 lit. (291 cu in)
Displacement, total	20V: 95.4 lit. (5822 cu in)
Fuel specification	EN 590, Grade No.1-D/2-D (ASTM D975-00)

Application	Definition
<b>3B</b>	<b>Prime Power</b> Continuous operation with variable load Load factor: < 75 % Operating hours/year: unrestricted Overload: 10 % capability (ICXN)

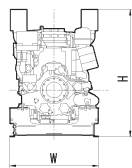
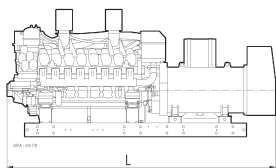
All Gensets are available with optional voltages 380V and 415V. Ratings can variate please contact your MTU distributor.

\*1) Rated Power available up to 40°C/400m and Charge air coolant temperature for fuel optimized: 70°C or for TA- Luft: 55°C

1) Rated Power available up to 35°C/400m and Charge air coolant temperature for TA- Luft: 55°C

2) Rated Power available up to 30°C/400m and Charge air coolant temperature for TA- Luft: 55°C

	Fuel Optimized			TA-Luft			
	Prime Power						
Genset Type	DP2610D5S	DP2870D5S	DP3075D5S	DP2610D5S	DP2870D5S	DP3075D5S	
Engine Type	20V 4000 G23	20V 4000 G63	20V4000G63L	20V 4000 G23	20V 4000 G63	20V 4000 G63L	
Generator type	1020FSL7004	1030FDL7005	1030FDL7008	1020FSL7004	1030FDL7005	1030FDL7008	
<b>Fuel Consumption *</b>							
100% load	g/kWh (l/h)	195 (517)	193 (563)	192 (599)	213 (565)	213 (621)	214 (668)
75% load	g/kWh (l/h)	201 (400)	199 (435)	197 (461)	213 (423)	213 (466)	213 (498)
50% load	g/kWh (l/h)	213 (282)	210 (306)	208 (325)	217 (288)	215 (313)	214 (334)
<b>Electrical Radiator**</b>							
Max. air temp. on fan	°C	45	45	45	45	45	45
Ambient temperature	°C	40	40	40	40	40	40
Fan air flow	m³/s	32.83	36.84	42.57	39.81	45.68	53.98
Air flow restriction	Pascal	200	200	200	200	200	200
<b>Air Intake</b>							
Intake air depression	mbar	15	15	15	15	15	15
Intake air flow	m³/s	2.6	2.7	2.9	2.8	3.0	3.3
<b>Exhaust System</b>							
Exhaust gas flow	m³/s	6.8	7.3	7.8	7.7	8.4	8.8
Exhaust gas temperature	°C	500	530	535	580	590	585
Exhaust back pressure	mbar	30	30	30	30	30	30
<b>Generator</b>							
Temperature rise (Insulation Class H)	°C	125	125	125	125	125	125
<b>Lube System</b>							
Engine oil capacity	l (gal)	390 (103)	390 (103)	390 (103)	390 (103)	390 (103)	390 (103)
<b>Emissions</b>							
NOx	mg/Nm³	-	-	-	1700	1700	1700
CO	mg/Nm³	-	-	-	300	300	300
Dust	mg/Nm³	-	-	-	50	50	50
Air born noise level at 1m	dB(A)	105	106	106	106	108	109
Exhaust noise level at 1 m	dB(A)	117	118	119	117	118	119
<b>Genset</b>							
Lengths	mm (in)	5985 (236)	6320 (249)	6320 (249)	5985 (236)	6320 (249)	6320 (249)
Widths	mm (in)	1840 (72)	1840 (72)	1840 (72)	1840 (72)	1840 (72)	1840 (72)
Height	mm (in)	2730 (107)	2730 (107)	2730 (107)	2730 (107)	2730 (107)	2730 (107)
Total Weight, wet	kg (lbs)	20021 (44138)	21015 (46330)	22936 (50565)	20062 (44229)	21258 (46865)	24862 (54811)
Genset convection heat incl. 10m exhaust pipes	kW (bhp)	220 (295)	242 (325)	259 (347)	220 (295)	242 (325)	259 (347)



\* 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.