DIESEL GENSET - 50 HZ
WATER CHARGE-AIR COOLING

820 - 900 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 [1]	kVA [2]	
DS 900 D5S	12V 2000 G65 TB	900	900	Fuel optimized

Prime Power

Genset Type	Engine Type	Nominal Rating		Emissions
		kVA [1]	kVA [2]	
DP 820 D5S	12V 2000 G65 TB	820	820	Fuel optimized

// REFERENCE CONDITIONS

	1)	2)
Ambient air temp.	25°C (77°F)	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

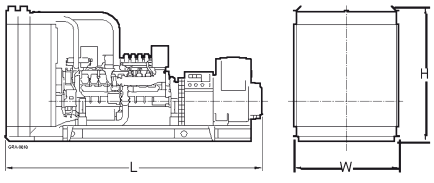
// ENGINE DATA

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 (ASTM D975-00)

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

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

		Fuel Optimized	
		Standby	Prime
Genset Type		DS900D5SFW	DP820D5SFW
Engine Type		12V2000G65TB	12V2000G65TB
Generator Type		574RSL7038	574RSL7038
Fuel Consumption *			
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)
Electrical Radiator, for remote installation			
Max. air temperature on fan	°C	45.5	45.5
Ambient temperature	°C	40	40
Fan air flow (77F and 29.22Hg)	m^3/s	17.78	17.78
Fan power	kW	20.5	20.5
Air flow restriction	Pascal	353.7	353.7
Heat dissipated by engine cool.	kW	305	285
Water flow engine cool. circuit	m^3/h	40	40
Cool. temp. at engine outlet	°C	95	95
Charge air heat dissipation	kW	185	160
Water flow eng. charge air circ.	m^3/h	14	14
Cool. temp. before intercooler	°C	60	60
Dimensions (LxWxH)	mm	1200x1800x2100	1200x1800x2100
Weight, wet	kg	950	950
Air Intake			
Intake air depression	mbar	15	15
Intake air flow	m^3/s	0.9	0.85
Exhaust System			
Exhaust gas flow	m^3/s	2.05	2.3
Exhaust gas temperature	°C	565	555
Exhaust back pressure	mbar	50	50
Generator			
Temperature rise	°K	125 (H)	125 (H)
Lube System			
Engine oil capacity	l	74	74
Emissions			
Air born noise level at 1m	dB(A)	100	100
Exhaust noise level at 1 m	dB(A)	110	109
Genset			
Lengths	mm	3860	3860
Widths	mm	1660	1660
Height	mm	1890	1890
Total weight, wet	kg	5633	5633



Power requirement for cooling fan is not included in rating.
* 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.

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