DIESEL GENSET - 50 HZ
WATER CHARGE-AIR COOLING

1650 - 2595 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	
DS 1650 D5S	12V 4000 G23	1650	Fuel Optimized*)
DS 1880 D5S	12V 4000 G23	1880	Fuel Optimized*)
DS 2085 D5S	12V 4000 G63	2085	Fuel Optimized[1)]
DS 2285 D5S	16V 4000 G23	2330	Fuel Optimized*)
DS 2595 D5S	16V 4000 G63	2595	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	170/210 mm (6.7/8.3 in)
Cyl. configuration	90°V
Cyl. displacement	4.77 lit. (291 cu in)
Displacement, total	12V: 57.2 lit. (3491 cu in) 16V: 76.3 lit. (4655 cu in)
Fuel specification	EN 590, Grade No.1-D/2-D (ASTM D975-00)

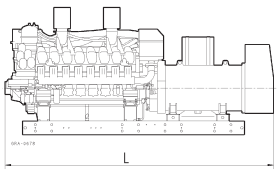
Application	Definition	
3D	**Standby Power** Standby operation with variable load	Load factor: < 85 % Operating hours/year: max. 500 Overload: Fuel stop power (IFN)

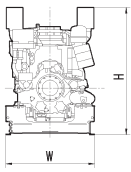
All Gensets are available with optional voltages 380V and 415V. Ratings can variate please contact your MTU distributor.

*) Rated Power available up to 40°C/400m and Charge air coolant temperature 70°C

1) Rated Power available up to 30°C/400m and Charge air coolant temperature 70°C

		Fuel Optimized				
		Standby Power				
Genset Type		DS01650D5S	DS1880D5S	DS2085D5S	DS2285D5S	DS2595D5S
Engine Type		12V 4000 G23	12V 4000 G23	12V 4000 G63	16V 4000 G23	16V 4000 G63
Generator type		744RSL7054	744RSL7054	744RSL7056	744RSL7056	1020FSL7004
Fuel Consumption *						
100% load	g/kWh (l/h)	192 (341)	189 (359)	196 (413)	191 (454)	195 (513)
75% load	g/kWh (l/h)	194 (259)	194 (276)	190 (300)	193 (344)	193 (381)
50% load	g/kWh (l/h)	200 (178)	200 (190)	198 (209)	203 (242)	198 (261)
Electrical Radiator**						
Max. air temp. on fan	°C	45	45	45	45	45
Ambient temperature	°C	40	40	40	40	40
Fan air flow	m^3/s	28.0	28.0	28.0	28.0	35.5
Air flow restriction	Pascal	200	200	200	200	200
Air Intake						
Intake air depression	mbar	15	15	15	15	15
Intake air flow	m^3/s	1.7	1.8	2.0	2.3	2.6
Exhaust System						
Exhaust gas flow	m^3/s	4.1	4.5	5.1	5.8	6.6
Exhaust gas temperature	°C	440	460	470	485	490
Exhaust back pressure	mbar	30	30	30	30	30
Generator						
Temperature rise (Insulation Class H)	°C	125	125	125	125	125
Lube System						
Engine oil capacity	l (gal)	260 (69)	260 (69)	260 (69)	300 (79)	300 (79)
Emissions						
NOx	mg/Nm^3	-	-	-	-	-
CO	mg/Nm^3	-	-	-	-	-
Dust	mg/Nm^3	-	-	-	-	-
Air born noise level at 1m	dB(A)	103	103	104	109	106
Exhaust noise level at 1 m	dB(A)	113	113	114	113	115
Dimensions						
Length	mm (in)	4583 (180)	4583 (180)	4583 (180)	5090 (200)	5455 (215)
Width	mm (in)	1693 (67)	1693 (67)	1693 (67)	1693 (67)	1693 (67)
Height	mm (in)	2410 (95)	2410 (95)	2410 (95)	2410 (95)	2410 (95)
Total Weight, wet	kg (lbs)	10451 (23040)	9901 (21828)	10418 (22968)	10468 (23078)	13852 (30538)
Genset convection heat incl. 10m exhaust pipes	kW (bhp)	148 (198)	158 (211)	175 (235)	198 (265)	219 (293)





* 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. | 3233691 | 1/11 | VMC 2011-03.

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