

DIESEL GENSET - 50 HZ

WATER CHARGE-AIR COOLING

1170 - 1285 kVA

BENEFITS

- // Low installment cost
- // Best fuel consumption values
- // Long maintenance intervals
- // High-efficiency components
- // Pre-installed control system and terminal box
- // Best-in-class reliability and availability



SYSTEM RATINGS

Standby Power

Genset Type	Engine Type	Nominal Rating		Emissions
		kVA ¹⁾	kVA ²⁾	
DS1285 D5S FW	18V 2000 G65 TB	1285	1285	Fuel optimized

Prime Power

Genset Type	Engine Type	Nominal Rating		Emissions
		kVA ¹⁾	kVA ²⁾	
DP 1170 D5S FW	18V 2000 G65 TB	1170	1170	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

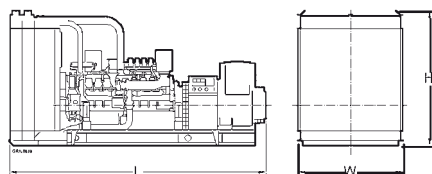
Bore/Stroke	130/150 mm (5.1/5.9 in)
Cyl. configuration	90°V
Cyl. displacement	1.99 lit. (121 cu in)
Displacement, total	18V: 35.8 lit. (2185 cu in)
Fuel specification	EN 590, Grade No.1-D/2-D (ASTM D975-00)

Application	Definition
3B	Prime Power Continuous operation with variable load
3D	Standby Power 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 (ICFN)

Gensets available also with Air Charge Air Cooling

	Fuel Optimized	
	Standby	Prime
Genset Type	DS1285D5SFW	DP1170D5SFW
Engine Type	18V 2000 G65 TB	18V 2000 G65 TB
Alternator type	742RSL7048	742RSL7048
Voltage V	400	400
Fuel Consumption *		
100% load g/kWh (l/h)	203 (269)	202 (243)
75% load g/kWh (l/h)	200 (199)	200 (181)
50% load g/kWh (l/h)	201 (133)	204 (123)
Electrical Radiator, for remote installation		
Max. air temperature on fan °C	TBD	TBD
Ambient temperature °C	40	40
Fan air flow (77F and 29.22Hg) m³/s	22.52	22.52
Fan power kW	32.3	32.3
Air flow restriction Pascal	200	200
Heat dissipated by engine cool. kW	445	425
Water flow engine cool. circuit m³/h	40	40
Cool. temp. at engine outlet °C	95	95
Charge air heat dissipation kW	250	215
Water flow eng. charge air circ. m³/h	14	14
Cool. temp. before intercooler °C	60	60
Dimensions (LxWxH) mm	1850x2100x2550	1850x2100x2550
Weight, wet kg	1550	1550
Air Intake		
Intake air depression mbar	15	15
Intake air flow m³/s	1.25	1.15
Exhaust System		
Exhaust gas flow m³/s	3.6	3.3
Exhaust gas temperature °C	550	555
Exhaust back pressure mbar	50	50
Alternator		
Temperature rise °K	125 (H)	125 (H)
Lube System		
Engine oil capacity l	130	130
Emissions		
Air born noise level at 1m dB(A)	103	105
Exhaust noise level at 1 m dB(A)	108	107
Genset		
Lengths mm	4380	4380
Widths mm	1660	1660
Height mm	1880	1880
Total weight, wet kg	7708	7708



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.