

 	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-56-135	
	POWER RATING			DATE 27/12/11

GENSET:	SFGLD 560	SPEED:	1500
JACKET WATER TEMPERATURE(°C):	90	FUEL TYPE:	LOW METHANE N. GAS
INTERCOOLER WATER TEMP(°C):	55		

APPLICATION:	CONTINUOUS	COMPRESSION RATIO:	9,2:1
COOLING SYSTEM:	TWO STAGE IC	REGULATION:	Electronic
EXHAUST MANIFOLD TYPE:	WATER COOLED	IGNITION TIMING:	18°
EMISSIONS:		MAX. BACK PRESSURE:	450 mmH2O
	NOX mg/Nm3(8)	500	
	CO mg/Nm3(8)	<800	
	NMHC mg/Nm3	<300	
		AMBIENT CONDITIONS ISO 3046/1:	
		Atmospheric pressure (kPa)=	100
		Ambient temperature (°C)=	25
		Relative humidity (%)=	30

POWER RATING (4)			NOMINAL	PARTIAL LOADS		
LOAD		%	100%	80%	60%	40%
MECHANICAL POWER	(3, 4, 5)	kWb	900	720	540	360
BMEP		bar	12,9	10,3	7,7	5,1
ELECTRICAL POWER (cosφ 1)		kWe	872,0	697,0	521,0	344,0
ELECTRICAL POWER (cosφ 0,8)		kWe	862,0	690,0	517,0	341,0
FUEL CONSUMPTION	(1)	kW	2560	2100	1640	1210
THERMAL EFFICIENCY		%	35,2	34,3	32,9	29,8
ELECTRICAL EFFICIENCY (cosφ 1)		%	34,1	33,2	31,8	28,4
HEAT IN MAIN WATER CIRCUIT	(1)	kW	753	613	481	381
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	165	154	134	107
HEAT IN CHARGE COOLER	(1)	kW	56	50	34	14
HEAT IN OIL COOLER	(1)	kW	109	104	100	93
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	696	572	451	334
HEAT IN EXHAUST GASES (120°C)	(1)	kW	551	455	361	269
EXHAUST GAS TEMPERATURE	(1)	°C	483	490	504	516
HEAT TO RADIATION	(1)	kW	46	41	34	28
CARBURETION SETTINGS (2)						
O2 TO EXHAUST(DRY)(ONLY A REFERENCE)		%	6,7	6,5	6,2	5,7

MASS FLOWS						
INTAKE AIR FLOW	(1)	kg/h	4560	3690	2820	2040
EXHAUST GAS FLOW (WET)	(1)	kg/h	4750	3840	2940	2130

NOTES:
1. 100% LOAD TOLERANCES: FUEL CONSUMPTION +5%, COOLING CIRCUIT AND EXHAUST GASES ± 8%, RADIATION ±25% EXHAUST TEMPERATURE ±20°C, MASS FLOWS ± 10%.
2. THE ENGINE PERFORMANCE DATA, TIMING ADVANCE AND CARBURETION SETTINGS ARE VALID FOR A GAS OF METHANE NUMBER >45 THAT FULFILS THE REQUIREMENTS DEFINED IN IC-G-D-30-001 AND IC-G-D-30-013
3. NET POWER, MECHANICAL PUMPS NOT INCLUDED.
4. POWERS ARE VALID FOR AMBIENT TEMP. =25°C AND AN ALTITUDE OF =500m. SEE OTHER CONDITIONS IN PI IC-G-B-00-001
5. OVERLOAD NOT ALLOWED
6. THE SPECIFICATIONS AND MATERIALS ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION
7. A ENGINE WITH INLET OR OUTPUT RESTRICTION OVER PUBLISHED LIMITS, OR WITH INADEQUATE MAINTENANCE OR INSTALLATION CAN MODIFY POWER RATING DATA.
8. EMISSIONS ARE CORRECTED TO 5% OF O2.
9. ALTERNATOR VOLTAGE 400 V