

 	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-48-151	1
	POWER RATING			DATE 27/12/11

<b>GENSET:</b>	<b>SFGLD 480</b>	<b>SPEED:</b>	<b>1500</b>
JACKET WATER TEMPERATURE(°C):	90	<b>FUEL TYPE:</b>	<b>LOW METHANE N. GAS</b>
INTERCOOLER WATER TEMP(°C):	55		

APPLICATION:	<b>CONTINUOUS</b>	COMPRESSION RATIO:	9,2:1
COOLING SYSTEM:	<b>TWO STAGE IC</b>	REGULATION:	Electronic
EXHAUST MANIFOLD TYPE:	WATER COOLED	IGNITION TIMING:	16°
EMISSIONS:		MAX. BACK PRESSURE:	450 mmH2O
	NOX mg/Nm3(8)	AMBIENT CONDITIONS ISO 3046/1:	
	CO mg/Nm3(8)	Atmospheric pressure (kPa)=	100
	NMHC mg/Nm3	Ambient temperature (°C)=	25
		Relative humidity (%)=	30

POWER RATING (4)			NOMINAL	PARTIAL LOADS		
LOAD		%	100%	80%	60%	40%
MECHANICAL POWER	(3, 4, 5)	kWb	725	580	435	290
BMEP		bar	12,1	9,7	7,3	4,8
ELECTRICAL POWER (cosφ 1)		kWe	703,0	562,0	421,0	279,0
ELECTRICAL POWER (cosφ 0,8)		kWe	692,0	555,0	416,0	276,0
FUEL CONSUMPTION	(1)	kW	1933	1607	1285	969
THERMAL EFFICIENCY		%	37,5	36,1	33,9	29,9
ELECTRICAL EFFICIENCY (cosφ 1)		%	36,4	35,0	32,8	28,8
HEAT IN MAIN WATER CIRCUIT	(1)	kW	519	438	371	319
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	127	115	100	79
HEAT IN CHARGE COOLER	(1)	kW	42	34	22	5
HEAT IN OIL COOLER	(1)	kW	85	81	78	74
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	526	440	348	256
HEAT IN EXHAUST GASES (120°C)	(1)	kW	413	347	275	202
EXHAUST GAS TEMPERATURE	(1)	°C	466	474	478	481
HEAT TO RADIATION	(1)	kW	36	34	31	25
<b>CARBURETION SETTINGS (2)</b>						
O2 TO EXHAUST(DRY)(ONLY A REFERENCE)		%	7,8	7,6	7,3	6,9

MASS FLOWS						
INTAKE AIR FLOW	(1)	kg/h	3590	2940	2310	1680
EXHAUST GAS FLOW (WET)	(1)	kg/h	3730	3060	2400	1750

<b>NOTES:</b>
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

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