

 	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-48-051	A1
	POWER RATING			DATE 17/03/05

GENSET:	SFGLD 480	SPEED:	1500
JACKET WATER TEMPERATURE(°C):	90	FUEL TYPE:	NATURAL GAS
INTERCOOLER WATER TEMP(°C):	55		

APPLICATION:	CONTINUOUS	COMPRESSION RATIO:	11,6:1
COOLING SYSTEM:	TWO STAGE IC	REGULATION:	Electronic
EXHAUST MANIFOLD TYPE:	WATER COOLED	IGNITION TIMING:	15°
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	838	670	503	335
BMEP		bar	14,0	11,2	8,4	5,6
ELECTRICAL POWER (cosφ 1)		kWe	811,0	649,0	485,0	320,0
ELECTRICAL POWER (cosφ 0,8)		kWe	801,0	642,0	481,0	318,0
FUEL CONSUMPTION	(1)	kW	2097	1718	1340	966
THERMAL EFFICIENCY		%	40,0	39,0	37,5	34,7
ELECTRICAL EFFICIENCY (cosφ 1)		%	38,7	37,8	36,2	33,1
HEAT IN MAIN WATER CIRCUIT	(1)	kW	604	490	380	294
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	135	121	106	79
HEAT IN CHARGE COOLER	(1)	kW	47	36	26	3
HEAT IN OIL COOLER	(1)	kW	88	85	80	76
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	487	406	324	237
HEAT IN EXHAUST GASES (120°C)	(1)	kW	356	300	242	179
EXHAUST GAS TEMPERATURE	(1)	°C	378	390	403	414
HEAT TO RADIATION	(1)	kW	33	31	27	21
CARBURETION SETTINGS (2)						
O2 TO EXHAUST(DRY)(ONLY A REFERENCE)		%	9,0	8,9	8,7	8,4

MASS FLOWS					
INTAKE AIR FLOW	(1)	kg/h	4160	3350	2580
EXHAUST GAS FLOW (WET)	(1)	kg/h	4320	3480	2680

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 THAT FULFILLS THE REQUIREMENTS DEFINED IN IC-G-D-30-001 AND IC-G-D-30-002
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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