

 	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-56-010	E
	POWER RATING			DATE 18/04/13

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

APPLICATION:	CONTINUOUS	COMPRESSION RATIO:	12,3:1
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	985	788	591	394
BMEP		bar	14,1	11,3	8,4	5,6
ELECTRICAL POWER (cosφ 1)		kWe	954,0	763,0	571,0	377,0
ELECTRICAL POWER (cosφ 0,8)		kWe	943,0	755,0	566,0	375,0
FUEL CONSUMPTION	(1)	kW	2456	2015	1578	1136
THERMAL EFFICIENCY		%	40,1	39,1	37,5	34,7
ELECTRICAL EFFICIENCY (cosφ 1)		%	38,8	37,9	36,2	33,2
HEAT IN MAIN WATER CIRCUIT	(1)	kW	709	575	449	340
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	150	139	121	98
HEAT IN CHARGE COOLER	(1)	kW	50	43	34	18
HEAT IN OIL COOLER	(1)	kW	100	96	87	80
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	577	482	389	281
HEAT IN EXHAUST GASES (120°C)	(1)	kW	423	358	292	213
EXHAUST GAS TEMPERATURE	(1)	°C	380	393	406	417
HEAT TO RADIATION	(1)	kW	35	31	28	23
CARBURETION SETTINGS (2)						
O2 TO EXHAUST(DRY)(ONLY A REFERENCE)		%	9,2	9,0	8,8	8,4

MASS FLOWS						
INTAKE AIR FLOW	(1)	kg/h	4910	3950	3080	2160
EXHAUST GAS FLOW (WET)	(1)	kg/h	5090	4100	3190	2240

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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