

 	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-56-084	B
	POWER RATING			DATE
			07-01-09	
			DEP.	2

<b>GENSET:</b>	<b>SFGM 560</b>	<b>SPEED:</b>	<b>1500</b>
JACKET WATER TEMPERATURE(°C):	90	<b>FUEL TYPE:</b>	<b>NATURAL GAS</b>
INTERCOOLER WATER TEMP(°C):	55		

APPLICATION:	<b>CONTINUOUS</b>	COMPRESSION RATIO:	<b>12,3:1</b>
COOLING SYSTEM:	<b>TWO STAGE IC</b>	REGULATION:	<b>Electronic</b>
EXHAUST MANIFOLD TYPE:	DRY	IGNITION TIMING:	<b>13°</b>
EMISSIONS:		MAX. BACK PRESSURE:	<b>450 mmH2O</b>
	NOX mg/Nm3(8)	AMBIENT CONDITIONS ISO 3046/1:	
	CO mg/Nm3(8)	Atmospheric pressure (kPa)=	<b>100</b>
	NMHC mg/Nm3	Ambient temperature (°C)=	<b>25</b>
		Relative humidity (%)=	<b>30</b>

POWER RATING (4)			NOMINAL	PARTIAL LOADS		
LOAD		%	100%	80%	60%	40%
MECHANICAL POWER	(3, 4, 5)	kWb	1055	844	633	422
BMEP		bar	15,1	12,1	9,0	6,0
ELECTRICAL POWER (cosφ 1)		kWe	1025,0	820,0	615,0	407,0
ELECTRICAL POWER (cosφ 0,8)		kWe	1014,0	812,0	610,0	405,0
FUEL CONSUMPTION	(1)	kW	2587	2117	1655	1202
THERMAL EFFICIENCY		%	40,8	39,9	38,2	35,1
ELECTRICAL EFFICIENCY (cosφ 1)		%	39,6	38,7	37,2	33,9
HEAT IN MAIN WATER CIRCUIT	(1)	kW	524	413	308	234
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	179	158	143	117
HEAT IN CHARGE COOLER	(1)	kW	64	51	42	25
HEAT IN OIL COOLER	(1)	kW	115	107	101	92
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	779	658	533	399
HEAT IN EXHAUST GASES (120°C)	(1)	kW	622	529	433	328
EXHAUST GAS TEMPERATURE	(1)	°C	496	511	533	557
HEAT TO RADIATION	(1)	kW	50	44	38	30
<b>CARBURETION SETTINGS (2)</b>						
O2 TO EXHAUST(DRY)(ONLY A REFERENCE)		%	8,6	8,5	8,1	7,4

MASS FLOWS						
INTAKE AIR FLOW	(1)	kg/h	4980	4080	3160	2260
EXHAUST GAS FLOW (WET)	(1)	kg/h	5170	4230	3280	2350

<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 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. =30°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

CODE3	01.08.2014	Cod.: C-A	Elab:	dis10	Versión: 27.1/09052014	1/1
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