

 	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-56-121	A
	POWER RATING			DATE
			31/01/13	
			DEP.	2

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

APPLICATION:	CONTINUOUS	COMPRESSION RATIO:	11,9:1
COOLING SYSTEM:	TWO STAGE IC	REGULATION:	Electronic
EXHAUST MANIFOLD TYPE:	DRY	IGNITION TIMING:	18°
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	1240	992	744	496
BMEP		bar	17,7	14,2	10,6	7,1
ELECTRICAL POWER (cosφ 1)		kWe	1204,0	963,0	722,0	478,0
ELECTRICAL POWER (cosφ 0,8)		kWe	1190,0	954,0	715,0	474,0
FUEL CONSUMPTION	(1)	kW	2985	2442	1903	1371
THERMAL EFFICIENCY		%	41,5	40,6	39,1	36,2
ELECTRICAL EFFICIENCY (cosφ 1)		%	40,3	39,4	37,9	34,9
HEAT IN MAIN WATER CIRCUIT	(1)	kW	641	504	391	297
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	220	190	160	141
HEAT IN CHARGE COOLER	(1)	kW	81	59	41	30
HEAT IN OIL COOLER	(1)	kW	139	131	119	111
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	809	690	550	391
HEAT IN EXHAUST GASES (120°C)	(1)	kW	618	535	433	312
EXHAUST GAS TEMPERATURE	(1)	°C	427	449	472	496
HEAT TO RADIATION	(1)	kW	75	66	58	46
CARBURETION SETTINGS (2)						
O2 TO EXHAUST(DRY)(ONLY A REFERENCE)		%	9,9	9,8	9,7	9,4

MASS FLOWS						
INTAKE AIR FLOW	(1)	kg/h	6080	4910	3710	2490
EXHAUST GAS FLOW (WET)	(1)	kg/h	6300	5080	3850	2590

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 FULFILS 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. =35°C AND AN ALTITUDE OF =500m. SEE OTHER CONDITIONS IN PI IC-G-B-00-005
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
10. VALID IN ISLAND OPERATION

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