

GROUP		PRODUCT INFORMATION	INDEX		
IC	GAS	IC-G-B-56-08	B1		
	POWER RATING		D)		
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ENGINE:	SFGLD 560	SPEED:	1500
JACKET WATER TEMPERATURE(°C):	90	FUEL TYPE:	BIOMASS GAS
INTERCOOLER WATER TEMP(°C):	55	FUEL TIPE:	BIOWASS GAS

APPLICATION:				COMPRESSION RATIO:	9.3:1
COOLING SYSTEM:				REGULATION: Electronic	
				IGNITION TIMING:	22º
EXHAUST MANIFOLD TYPE: EMISSIONS:	٧	VATER COOLED		MAX. BACK PRESSURE:	450 mmH2O
	NOX	mg/Nm3(8)	1500	AMBIENT CONDITIONS ISO 3046/1:	
	co	mg/Nm3(8)	<1500	Atmospheric pressure (kPa)=	100
	NMHC	mg/Nm3	<300	Ambient temperature (ºC)=	25
				Relative humidity (%)=	30

POWER RATING (4)			NOMINAL	PARTIAL LOADS		
LOAD		%	100%	80%	60%	40%
MECHANICAL POWER	(3, 4, 5)	kWb	735	588	441	294
ВМЕР		bar	10,5	8,4	6,3	4,2
FUEL CONSUMPTION	(1)	kW	1983	1631	1316	990
THERMAL EFFICIENCY		%	37,1	36,1	33,5	29,7
HEAT IN MAIN WATER CIRCUIT	(1)	kW	557	453	389	319
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	132	127	113	93
HEAT IN CHARGE COOLER	(1)	kW	35	35	27	9
HEAT IN OIL COOLER	(1)	kW	97	92	86	84
HEAT IN EXHAUST GASES (25 ºC)	(1)	kW	516	427	343	260
HEAT IN EXHAUST GASES (120ºC)	(1)	kW	402	334	269	206
EXHAUST GAS TEMPERATURE	(1)	ōС	455	460	465	478
HEAT TO RADIATION	(1)	kW	43	36	30	24
CARBURETION SETTINGS (2)		1			
O2 TO EXHAUST(DRY)(ONLY A REFERENCE)			4,3	4,1	3,8	3,2
MAS	SS FLOWS		7			
INTAKE AIR FLOW	(1)	kg/h	2400	1950	1540	1120
EXHAUST GAS FLOW (WET)	(1)	kg/h	3750	3070	2440	1800

NOTES:

- 1. 100% LOAD TOLERANCES:
 - FUEL CONSUMPTION +5%,
 - COOLING CIRCUIT AND EXHAUST GASES \pm 15%, RADIATION \pm 25
- EXHAUST TEMPERATURE ±20°C, MASS FLOWS ± 10%.
- 2. THE ENGINE PERFORMANCE DATA, TIMING ADVANCE AND CARBURETION SETTINGS ARE VALID FOR A SYNGAS (LHV 4.6 7 MJ/Nm3) THAT FULFILS THE REQUIREMENTS DEFINED IN IC-G-D-30-001 AND IC-G-D-30-004
- 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. NOx EMISSIONS DUE TO NH3 POLUTANT IN GAS ARE NOT INCLUDED
- 10. ONLY IN PARALLEL TO THE NET OPERATION

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