

 	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-48-137	B1
POWER RATING			DATE	
			01-04-10	
			DEP.	2

GENSET:	SFGM 480	SPEED:	1500
JACKET WATER TEMPERATURE(°C):	90	FUEL TYPE:	PROPANE
INTERCOOLER WATER TEMP(°C):	40		

APPLICATION:	CONTINUOUS	COMPRESSION RATIO:	9,2:1
COOLING SYSTEM:	TWO STAGE IC	REGULATION:	Electronic
EXHAUST MANIFOLD TYPE:	WATER COOLED	IGNITION TIMING:	11°
EMISSIONS:		MAX. BACK PRESSURE:	450 mmH2O
	NOX mg/Nm3(8)	500	
	CO mg/Nm3(8)	<800	
	NMHC mg/Nm3	<600	
		AMBIENT CONDITIONS ISO 3046/1:	
		Atmospheric pressure (kPa)=	100
		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	2155	1786	1413	1015
THERMAL EFFICIENCY		%	38,9	37,5	35,6	33,0
ELECTRICAL EFFICIENCY (cosφ 1)		%	37,6	36,3	34,3	31,5
HEAT IN MAIN WATER CIRCUIT	(1)	kW	651	540	436	336
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	140	131	115	84
HEAT IN CHARGE COOLER	(1)	kW	50	46	34	6
HEAT IN OIL COOLER	(1)	kW	90	85	81	78
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	489	412	329	235
HEAT IN EXHAUST GASES (120°C)	(1)	kW	377	320	257	185
EXHAUST GAS TEMPERATURE	(1)	°C	440	450	460	468
HEAT TO RADIATION	(1)	kW	37	33	30	25
CARBURETION SETTINGS (2)						
O2 TO EXHAUST(DRY)(ONLY A REFERENCE)		%	8,2	8,0	7,7	7,3

MASS FLOWS						
INTAKE AIR FLOW	(1)	kg/h	3520	2900	2260	1580
EXHAUST GAS FLOW (WET)	(1)	kg/h	3680	3030	2360	1660

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 PROPANE (C3H8 >95%) THAT FULFILLS THE REQUIREMENTS DEFINED IN IC-G-D-30-001 AND IC-G-D-30-018
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

CODE3	25.07.2014	Cod.: C-A	Elab:	dis10	Versión: 27.1/09052014	1/1
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