

 	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-48-139	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:	9°
EMISSIONS:		MAX. BACK PRESSURE:	450 mmH2O
	NOX mg/Nm3(8)	1000	
	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	725	580	435	290
BMEP		bar	12,1	9,7	7,3	4,8
ELECTRICAL POWER (cosφ 1)		kWe	703,0	562,0	421,0	279,0
ELECTRICAL POWER (cosφ 0,8)		kWe	692,0	555,0	416,0	276,0
FUEL CONSUMPTION	(1)	kW	1859	1549	1231	913
THERMAL EFFICIENCY		%	39,0	37,4	35,3	31,8
ELECTRICAL EFFICIENCY (cosφ 1)		%	37,8	36,3	34,2	30,6
HEAT IN MAIN WATER CIRCUIT	(1)	kW	549	466	377	302
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	131	119	103	81
HEAT IN CHARGE COOLER	(1)	kW	42	34	22	4
HEAT IN OIL COOLER	(1)	kW	89	85	81	77
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	419	353	288	217
HEAT IN EXHAUST GASES (120°C)	(1)	kW	324	275	226	171
EXHAUST GAS TEMPERATURE	(1)	°C	442	454	465	475
HEAT TO RADIATION	(1)	kW	35	31	28	23
CARBURETION SETTINGS (2)						
O2 TO EXHAUST(DRY)(ONLY A REFERENCE)		%	7,2	6,9	6,5	6,0

MASS FLOWS						
INTAKE AIR FLOW	(1)	kg/h	3000	2460	1950	1440
EXHAUST GAS FLOW (WET)	(1)	kg/h	3140	2570	2040	1510

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 >80%) THAT FULFILS 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