

 	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-24-095	B1
	POWER RATING			DATE
			01-04-10	
			DEP.	2

GENSET:	SFGM 240	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 CIRCUITS	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	360	288	216	144
BMEP		bar	12,0	9,6	7,2	4,8
ELECTRICAL POWER (cosφ 1)		kWe	347,0	278,0	208,0	137,0
ELECTRICAL POWER (cosφ 0,8)		kWe	342,0	274,0	206,0	136,0
FUEL CONSUMPTION	(1)	kW	922	767	610	451
THERMAL EFFICIENCY		%	39,0	37,5	35,4	31,9
ELECTRICAL EFFICIENCY (cosφ 1)		%	37,6	36,2	34,1	30,4
HEAT IN MAIN WATER CIRCUIT	(1)	kW	230	204	179	145
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	102	79	56	40
HEAT IN CHARGE COOLER	(1)	kW	53	33	14	1
HEAT IN OIL COOLER	(1)	kW	49	46	42	39
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	208	176	142	107
HEAT IN EXHAUST GASES (120°C)	(1)	kW	161	137	112	84
EXHAUST GAS TEMPERATURE	(1)	°C	442	454	465	475
HEAT TO RADIATION	(1)	kW	22	20	17	15
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	1490	1220	970	710
EXHAUST GAS FLOW (WET)	(1)	kg/h	1560	1280	1010	740

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