

 	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-36-162	1
	POWER RATING			DATE 27/12/11

GENSET:	SFGLD 360	SPEED:	1500
JACKET WATER TEMPERATURE(°C):	90	FUEL TYPE:	LOW METHANE N. GAS
INTERCOOLER WATER TEMP(°C):	55		

APPLICATION:	CONTINUOUS	COMPRESSION RATIO:	9,2:1
COOLING SYSTEM:	TWO STAGE IC	REGULATION:	Electronic
EXHAUST MANIFOLD TYPE:	WATER COOLED	IGNITION TIMING:	16°
EMISSIONS:		MAX. BACK PRESSURE:	450 mmH2O
	NOX mg/Nm3(8)	500	
	CO mg/Nm3(8)	<800	
	NMHC mg/Nm3	<300	
		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	550	440	330	220
BMEP		bar	12,2	9,8	7,3	4,9
ELECTRICAL POWER (cosφ 1)		kWe	531,0	425,0	318,0	210,0
ELECTRICAL POWER (cosφ 0,8)		kWe	523,0	419,0	314,0	208,0
FUEL CONSUMPTION	(1)	kW	1455	1208	969	730
THERMAL EFFICIENCY		%	37,8	36,4	34,1	30,1
ELECTRICAL EFFICIENCY (cosφ 1)		%	36,5	35,2	32,8	28,8
HEAT IN MAIN WATER CIRCUIT	(1)	kW	453	388	340	292
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	***	***	***	***
HEAT IN CHARGE COOLER	(1)	kW	27	21	13	4
HEAT IN OIL COOLER	(1)	kW	***	***	***	***
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	394	329	261	191
HEAT IN EXHAUST GASES (120°C)	(1)	kW	308	259	206	151
EXHAUST GAS TEMPERATURE	(1)	°C	463	472	475	476
HEAT TO RADIATION	(1)	kW	31	30	25	23
CARBURETION SETTINGS (2)						
O2 TO EXHAUST(DRY)(ONLY A REFERENCE)		%	7,8	7,6	7,3	6,9

MASS FLOWS						
INTAKE AIR FLOW	(1)	kg/h	2700	2210	1740	1270
EXHAUST GAS FLOW (WET)	(1)	kg/h	2810	2300	1810	1320

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 OF METHANE NUMBER >45 THAT FULFILS THE REQUIREMENTS DEFINED IN IC-G-D-30-001 AND IC-G-D-30-013
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

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