

 	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-36-011	F
	POWER RATING			DATE
			09-12-05	
			DEP.	2

GENSET:	FGLD 360	SPEED:	1500
JACKET WATER TEMPERATURE(°C):	90	FUEL TYPE:	NATURAL GAS
INTERCOOLER WATER TEMP(°C):	55		

APPLICATION:	CONTINUOUS	COMPRESSION RATIO:	11:1
COOLING SYSTEM:	TWO CIRCUITS	REGULATION:	Manual
EXHAUST MANIFOLD TYPE:	WATER COOLED	IGNITION TIMING:	15°
EMISSIONS:		MAX. BACK PRESSURE:	450 mmH2O
	NOX mg/Nm3(8)	AMBIENT CONDITIONS ISO 3046/1:	
	CO mg/Nm3(8)	Atmospheric pressure (kPa)=	100
	NMHC mg/Nm3	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	1447	1194	932	684
THERMAL EFFICIENCY		%	38,0	36,9	35,4	32,2
ELECTRICAL EFFICIENCY (cosφ 1)		%	36,7	35,6	34,1	30,7
HEAT IN MAIN WATER CIRCUIT	(1)	kW	378	322	260	204
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	135	105	79	60
HEAT IN CHARGE COOLER	(1)	kW	69	43	21	5
HEAT IN OIL COOLER	(1)	kW	66	62	58	55
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	358	303	241	182
HEAT IN EXHAUST GASES (120°C)	(1)	kW	270	230	184	140
EXHAUST GAS TEMPERATURE	(1)	°C	408	417	425	435
HEAT TO RADIATION	(1)	kW	26	24	22	18
CARBURETION SETTINGS (2)						
O2 TO EXHAUST(DRY)(ONLY A REFERENCE)		%	9,0	8,8	8,6	8,4

MASS FLOWS						
INTAKE AIR FLOW	(1)	kg/h	2820	2330	1820	1340
EXHAUST GAS FLOW (WET)	(1)	kg/h	2930	2420	1890	1380

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 THAT FULFILS THE REQUIREMENTS DEFINED IN IC-G-D-30-001 AND IC-G-D-30-002
3. NET POWER, MECHANICAL PUMPS NOT INCLUDED.
4. POWERS ARE VALID FOR AMBIENT TEMP. =35°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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