

 	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-48-011	E
	POWER RATING			DATE
			11-02-04	
			DEP.	2

GENSET:	FGLD 480	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:	18°
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	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	1913	1587	1238	893
THERMAL EFFICIENCY		%	37,9	36,5	35,1	32,5
ELECTRICAL EFFICIENCY (cosφ 1)		%	36,7	35,4	34,0	31,2
HEAT IN MAIN WATER CIRCUIT	(1)	kW	527	446	361	277
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	176	147	112	79
HEAT IN CHARGE COOLER	(1)	kW	88	63	32	5
HEAT IN OIL COOLER	(1)	kW	88	84	80	74
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	451	386	306	227
HEAT IN EXHAUST GASES (120°C)	(1)	kW	332	287	230	171
EXHAUST GAS TEMPERATURE	(1)	°C	387	396	407	413
HEAT TO RADIATION	(1)	kW	34	28	24	20
CARBURETION SETTINGS (2)						
O2 TO EXHAUST(DRY)(ONLY A REFERENCE)		%	9,4	9,3	8,9	8,7

MASS FLOWS						
INTAKE AIR FLOW	(1)	kg/h	3750	3130	2410	1760
EXHAUST GAS FLOW (WET)	(1)	kg/h	3890	3250	2500	1830

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