

 	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-18-001	D
	POWER RATING			DATE
			11-02-04	
			DEP.	2

GENSET:	SFGLD 180	SPEED:	1500
JACKET WATER TEMPERATURE(°C):	90	FUEL TYPE:	NATURAL GAS
INTERCOOLER WATER TEMP(°C):	55		

APPLICATION:	CONTINUOUS	COMPRESSION RATIO:	11,6:1
COOLING SYSTEM:	TWO CIRCUITS	REGULATION:	Electronic
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	315	252	189	126
BMEP		bar	14,0	11,2	8,4	5,6
ELECTRICAL POWER (cosφ 1)		kWe	303,0	242,0	181,0	120,0
ELECTRICAL POWER (cosφ 0,8)		kWe	298,0	239,0	179,0	119,0
FUEL CONSUMPTION	(1)	kW	778	635	498	368
THERMAL EFFICIENCY		%	40,5	39,7	38,0	34,2
ELECTRICAL EFFICIENCY (cosφ 1)		%	38,9	38,1	36,3	32,6
HEAT IN MAIN WATER CIRCUIT	(1)	kW	191	159	133	111
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	74	59	43	32
HEAT IN CHARGE COOLER	(1)	kW	40	25	12	3
HEAT IN OIL COOLER	(1)	kW	34	34	31	29
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	182	151	120	89
HEAT IN EXHAUST GASES (120°C)	(1)	kW	132	111	89	66
EXHAUST GAS TEMPERATURE	(1)	°C	372	379	386	393
HEAT TO RADIATION	(1)	kW	16	14	13	10
CARBURETION SETTINGS (2)						
O2 TO EXHAUST(DRY)(ONLY A REFERENCE)		%	9,8	9,5	9,0	8,5

MASS FLOWS					
INTAKE AIR FLOW	(1)	kg/h	1580	1290	1010
EXHAUST GAS FLOW (WET)	(1)	kg/h	1640	1340	1040

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 FULFILLS 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. =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