

 A Siemens Business	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-56-172	B
Guascor engines & gensets		POWER RATING		DATE 26/08/14
				DEP. 2

GENSET:	SFGLD 560	SPEED:	1800
JACKET WATER TEMPERATURE(°F):	194	FUEL TYPE:	NATURAL GAS
INTERCOOLER WATER TEMP(°F):	131		

APPLICATION: COOLING SYSTEM:	CONTINUOUS	COMPRESSION RATIO:	12,3:1
EXHAUST MANIFOLD TYPE:	TWO CIRCUITS	REGULATION:	Electronic
EMISSIONS:	TWO STAGE IC	IGNITION TIMING:	16°
	WATER COOLED	MAX. BACK PRESSURE:	18 "H2O (450 mmH2O)
	NOX mg/Nm3(8) 169	AMBIENT CONDITIONS ISO 3046/1:	
	CO mg/Nm3(8) <300	Atmospheric pressure ("Hg (kPa))=	30 (100)
	NMHC mg/Nm3 <113	Ambient temperature (°F (°C))=	77 (25)
		Relative humidity (%)=	30

POWER RATING (4)			NOMINAL	PARTIAL LOADS		
LOAD		%	100%	80%	60%	40%
MECHANICAL POWER	(3, 4, 5)	BHP (KWb)	1431 (1067)	1145 (854)	858 (640)	573 (427)
BMEP		psi (bar)	184 (12.7)	148 (10.2)	110 (7.6)	74 (5.1)
ELECTRICAL POWER (cosφ 1)		kWe	1028	822	615	405
ELECTRICAL POWER (cosφ 0,8)		kWe	1016	813	610	403
FUEL CONSUMPTION	(1)	BTU/bHP-hr (KW)	6708 (2813)	6881 (2309)	7214 (1814)	7914 (1329)
MECHANICAL EFFICIENCY		%	37.9	37.0	35.3	32.1
ELECTRICAL EFFICIENCY (cosφ 1)		%	36.5	35.6	33.9	30.5
HEAT IN MAIN WATER CIRCUIT	(1)	BTU/min (KW)	45320 (797)	37190 (654)	29340 (516)	22980 (404)
HEAT IN SECONDARY WATER CIRCUIT	(1)	BTU/min (KW)	8985 (158)	8075 (142)	7393 (130)	6256 (110)
HEAT IN CHARGE COOLER	(1)	BTU/min (KW)	2900 (51)	2218 (39)	1820 (32)	1137 (20)
HEAT IN OIL COOLER	(1)	BTU/min (KW)	6085 (107)	5858 (103)	5573 (98)	5118 (90)
HEAT IN EXHAUST GASES (25 °C)	(1)	BTU/min (KW)	42820 (753)	35660 (627)	28550 (502)	20810 (366)
HEAT IN EXHAUST GASES (120°C)	(1)	BTU/min (KW)	32940 (579)	27630 (486)	22320 (392)	16410 (288)
EXHAUST GAS TEMPERATURE	(1)	°F (°C)	819 (437)	837 (447)	860 (460)	885 (474)
HEAT TO RADIATION	(1)	BTU/min (KW)	2161 (38)	1820 (32)	1479 (26)	1251 (22)
CARBURETION SETTINGS (2)						
O2 TO EXHAUST(DRY)(ONLY A REFERENCE)		%	9.1	8.9	8.7	8.4

MASS FLOWS					
INTAKE AIR FLOW	(1)	lb/h (Kg/h)	12140 (5510)	9870 (4480)	7660 (3480)
EXHAUST GAS FLOW (WET)	(1)	lb/h (Kg/h)	12590 (5710)	10240 (4650)	7960 (3610)

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-30-001e AND IC-G-D-30-002e					
3. NET POWER, MECHANICAL PUMPS NOT INCLUDED.					
4. POWERS ARE VALID FOR AMBIENT TEMP.=77°F (25°C) AND AN ALTITUDE OF =1640 ft (500 m). 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 15% OF O2. EMISSIONS ACCORDING TO D1 CYCLE IS 8178-4.					
9. ALTERNATOR VOLTAGE 440 V					