



## **POWER GENERATION APPLICATIONS**

### **RATINGS 1200/1500 RPM**

<i>Engine Model</i>		SFGLD 180	SFGLD 240	SFGLD 360	SFGLD 480	SFGLD 560
Continuous Rating	kWb	/314	335/419	7628	670/838	792/985

Continuous rating: Output available without load variation for an unlimited time

### **RATINGS 1800 RPM**

<i>Engine Model</i>		SFGLD 240	SFGLD 480
Prime Rating	kWb	453	906
Stand-By Rating	kWb	527	1026

Prime rating: Unlimited time of operation at 80% load average with full load limited to 750 hours/year

Stand-by rating: Output available with variable load for the outage period. Maximum 250h/yeaH

### **ENGINE SPECIFICATIONS**

<i>Engine Model</i>		SFGLD 180	SFGLD 240	SFGLD 360	SFGLD 480	SFGLD 560
Configuration		6L	8L	12V	16V	16V
Rotating Speed	RPM	1200/1500/1800				1200/1500
Bore x Stroke	mm(in)	150(5.98) x 165(6.50)				160(6.3) X 175(6.89)
Displacement	L(cu.In)	18.(1096)	24 (1465)	36(2197)	48 (2929)	56 (3417)
Compression Ratio		11.7:1				
Piston Speed	m/s(ft/min)		9.91 (1950)	@ 1800 rpm		8.75 (1722)
Efficiency	%		38.5		36.5	37.5
Emissions						
NOx (##)	gr/bhp-hr		2		2	2
CO(##)	gr/bhp-hr		1.5		1.5	1.5

(##) Lower emissions are available

## GAS ENGINE GENERAL CHARACTERISTICS (SFGLD)

ITEM	UNITS	SFGLD 180	SFGLD 240	SFGLD 360	SFGLD 480	SFGLD 560
No of Cylinders		6 in line	8 in line	12Vee	16Vee	16Vee
Cycle		4 stroke				
Cylinder Dia. X Stroke	mm	152x165				160x175
Displacement	L	18	24	36	48	56
Compression ratio		9.3:1 Stand-by 11.7:1 Prime and continuous				
Speed range	rpm	1200-1800				1200-1500
Piston speed	m/sec	9.9 (1800 rpm)				8.75 (1500 rpm)
Low idle	rpm	650 - 750				
Flywheel Housing/Flywheel		SAEO/18"			SAEOO/18"	
Engine Weight	kg	2620	3400	4055	5300	5800
COOLING SYSTEM						
Types		Water/air intercooler, Heat exchanger, Radiator				
Main circuit capacity	L	50	65	180	200	200
Normal Jacket water operatin	°C	75/90				
Auxiliary Water Temp, (in)	°C	55	55	55	55	50
LUBRICATION SYSTEM						
Normal lube oil pressure	Bar	4.5-6				
Oil capacity ( oil sump_}_}	L	70	90	180	210	210
COMBUSTION SYSTEM						
Type		Lean Burn (Lambda 1.5-1.7)				
Fuel		Natural/Digester/landfill gas				
Carburation		Woodward Deltec, Tecjet, Flo-Tech, EGS-01				