

OLYMPIAN™

GEP26SP2

*Diesel Generator Set
Exclusively from your Caterpillar® dealer*



Output Ratings		
Generating Set Model	Prime*	Standby*
220-240V, 50 Hz	24.0 kVA 24.0 kW	26.0 kVA 26.0 kW
240V, 60 Hz	- -	- -

* Refer to ratings definitions on page 4.
Ratings at 1.0 power factor.

Technical Data		
Engine Make & Model:	Perkins 1103C-33G2/3	
Alternator Model:	LLB1014S	
Base Frame Type:	Heavy Duty Fabricated Steel	
Circuit Breaker Type:	3 Pole MCB	
Frequency:	50 Hz	60 Hz
Engine Speed: RPM	1500	-
Fuel Tank Capacity: litres (US gal)	144 (38.0)	
Fuel Consumption, Prime: l/hr (US gal/hr)	7.5 (2.0)	-
Fuel Consumption, Standby : l/hr (US gal/hr)	8.1 (2.1)	-

Engine Technical Data

Physical Data	
Manufacturer:	Perkins
Model:	1103C-33G2/3
No. of Cylinders/Alignment:	3 / In Line
Cycle:	4 Stroke
Induction:	Naturally Aspirated
Cooling Method:	Water
Governing Type:	Mechanical
Governing Class:	ISO 8528 G2
Compression Ratio:	19.25:1
Displacement: l (cu.in)	3.3 (201.4)
Bore/Stroke: mm (in)	105.0 (4.1)/127.0 (5.0)
Moment of Inertia: kg m ² (lb. in ²)	1.14 (3896)
Engine Electrical System:	
-Voltage/Ground:	12/Negative
-Battery Charger Amps:	65
Weight: kg (lb) - Dry:	412 (908)
- Wet:	430 (948)

Air System	50 Hz	60 Hz
Air Filter Type:	Replaceable Element	
Combustion Air Flow:		
m ³ /min (cfm) -Standby:	2.1 (76)	-
-Prime:	2.2 (76)	-
Max. Combustion Air Intake		
Restriction: kPa (in H ₂ O)	3.0 (12.0)	-
Radiator Cooling Air Flow:		
m ³ /min (cfm)	61.8 (2182)	-
External Restriction to		
Cooling Air Flow: Pa (in H ₂ O)	125 (0.5)	-

Cooling System	50 Hz	60 Hz
Cooling System Capacity:		
l (US gal)	10.2 (2.7)	-
Water Pump Type:	Centrifugal	
Heat Rejected to Water & Lube Oil: kW (Btu/min)		
-Standby:	19.7 (1120)	-
-Prime:	18.0 (1024)	-
Heat Radiation to Room:		
kW (Btu/min) -Standby:	6.0 (341)	-
-Prime:	6.0 (341)	-
Radiator Fan Load: kW (hp)	0.3 (0.4)	-

Cooling system designed to operate in ambient conditions up to 50°C (122°F). Contact your local Olympian dealer for power ratings at specific site conditions.

Lubrication system	
Oil Filter Type:	Spin-On, Full Flow
Total Oil Capacity l (US gal):	8.3 (2.2)
Oil Pan l (US gal):	7.8 (2.1)
Oil Type:	API-CH4/CI4
Cooling Method:	Water

Performance	50 Hz	60 Hz
Engine Speed: RPM	1500	-
Gross Engine Power: kW (hp)		
-Standby:	31.0 (42.0)	-
-Prime:	27.9 (37.0)	-
BMEP: kPa (psi)		
-Standby:	752.0 (109.0)	-
-Prime:	676.0 (98.1)	-
Regenerative Power: kW	7.7	-

Fuel System				
Fuel Filter Type:	Replaceable Element			
Recommended Fuel:	Class A2 Diesel			
Fuel Consumption: l/hr (US gal/hr)				
	110% Load	100% Load	75% Load	50% Load
Prime				
50 Hz	8.1 (2.1)	7.5 (2.0)	5.7 (1.5)	4.0 (1.1)
60 Hz	-	-	-	-
Standby				
50 Hz	8.1 (2.1)	6.1 (1.6)	4.3 (1.1)	
60 Hz	-	-	-	

(based on diesel fuel with a specific gravity of 0.85 and conforming to BS2869, Class A2)

Exhaust System	50 Hz	60 Hz
Silencer Type:	Level 1	
Silencer Noise Reduction	SD50 (1)	
Pressure Drop Across		
Silencer System: kPa (in Hg)	0.14 (0.041)	-
Silencer Noise Reduction		
Level: dB	20	-
Max. Allowable Back		
Pressure: kPa (in. Hg)	15.0 (4.4)	-
Exhaust Gas Flow:		
m ³ /min (cfm) -Standby:	5.3 (185)	-
-Prime:	5.5 (194)	-
Exhaust Gas Temperature: °C (°F)		
m ³ /min (cfm) -Standby:	570 (1058)	-
-Prime:	515 (959)	-

Consult your Olympian representative for more information

Alternator Performance Data

Data Item	50 Hz				60 Hz				
	240V	230V	220V						
Motor Starting Capability* kVA	54	51	48	-	-	-	-	-	-
Short Circuit Capacity** %	-	-	-	-	-	-	-	-	-
Reactances: Per Unit									
Xd	1.380	1.500	1.640	-	-	-	-	-	-
X'd	0.170	0.180	0.200	-	-	-	-	-	-
X''d	0.075	0.082	0.089	-	-	-	-	-	-

Reactances shown are applicable to standby ratings.

* Based on 30% voltage dip. Improved motor starting capability is available with optional Permanent Magnet generator or AREP excitation.

** With optional Permanent Magnet generator or AREP excitation.

Alternator Technical Data

Physical Data	
Manufacturer:	OLYMPIAN
Model:	LLB1014S
No. of Bearings:	1
Insulation Class:	H
Winding Pitch - Code:	2/3 - M
Wires:	4
Ingress Protection Rating:	IP23
Excitation System:	SHUNT
AVR Model:	R250

Operating Data	
Overspeed: RPM	2250
Voltage Regulation (steady state) (%):	+/- 1.0
Wave Form NEMA = TIF:	50
Wave Form IEC = THF:	2.0%
Total Harmonic Content LL/LN:	4.0%
Radio Interference:	Suppression is in line with European Standard EN61000-6
Radiant Heat: kW (Btu/min)	
-50 Hz:	3.2 (182)
-60 Hz:	-

Consult your Olympian representative for more information

