

# OLYMPIAN™



## GEP26SP6

Diesel Generator Set  
Exclusively from your Cat® dealer

EU Stage III Emissions Compliant  
Suitable for Mobile Applications in the European Community

Image shown may not reflect actual package

### Output Ratings

Generating Set Model - Single Phase	Prime*	Standby*
220-240V, 50 Hz	24.0 kVA 24.0 kW	26.0 kVA 26.0 kW
	-	-
	-	-

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

### Technical Data

Engine Make & Model:	Perkins 1103D-33G3	
Alternator Model:	LLB1014S	
Control Panel:	1002T	
Base Frame Type:	Fbc2 - (08Hr)	
Circuit Breaker Type:	3 Pole MCCB	
Frequency:	50 Hz	60 Hz
Engine Speed: RPM	1500	-
Fuel Tank Capacity: litres (US gal)	161 (42.5)	
Fuel Consumption, Prime: l/hr (US gal/hr)	7.4 (2.0)	-
Fuel Consumption, Standby : l/hr (US gal/hr)	7.9 (2.1)	-

## Engine Technical Data

Physical Data	
<b>Manufacturer:</b>	Perkins
<b>Model:</b>	1103D-33G3
<b>No. of Cylinders/Alignment:</b>	3 / In Line
<b>Cycle:</b>	4 Stroke
<b>Induction:</b>	Naturally Aspirated
<b>Cooling Method:</b>	Water
<b>Governing Type:</b>	Mechanical
<b>Governing Class:</b>	ISO 8528 G2
<b>Compression Ratio:</b>	19.25:1
<b>Displacement:</b> l (cu.in)	3.3 (201.4)
<b>Bore/Stroke:</b> mm (in)	105.0 (4.1)/127.0 (5.0)
<b>Moment of Inertia:</b> kg m <sup>2</sup> (lb. in <sup>2</sup> )	1.14 (3896)
<b>Engine Electrical System:</b>	
-Voltage/Ground:	12/Negative
-Battery Charger Amps:	65
<b>Weight:</b> kg (lb) - Dry:	329 (725)
- Wet:	343 (756)

Air System	50 Hz	60 Hz
<b>Air Filter Type:</b>	Replaceable Element	
<b>Combustion Air Flow:</b>		
m <sup>3</sup> /min (cfm)	-Standby: 2.1 (75)	-
	-Prime: 2.2 (76)	-
<b>Max. Combustion Air Intake</b>		
<b>Restriction:</b> kPa (in H <sub>2</sub> O)	3.0 (12.0)	-
<b>Radiator Cooling Air Flow:</b>		
m <sup>3</sup> /min (cfm)	50.4 (1780)	-
<b>External Restriction to</b>		
<b>Cooling Air Flow:</b> Pa (in H <sub>2</sub> O)	125 (0.5)	-

Cooling System	50 Hz	60 Hz
<b>Cooling System Capacity:</b>		
l (US gal)	10.2 (2.7)	-
<b>Water Pump Type:</b>	Centrifugal	
<b>Heat Rejected to Water &amp; Lube Oil:</b> kW (Btu/min)		
	-Standby: 24.0 (1365)	-
	-Prime: 21.0 (1194)	-
<b>Heat Radiation to Room:</b> Heat radiated from engine and alternator		
kW (Btu/min)	-Standby: 8.2 (466)	-
	-Prime: 8.3 (472)	-
<b>Radiator Fan Load:</b> 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	
<b>Oil Filter Type:</b>	Spin-On, Full Flow
<b>Total Oil Capacity I (US gal):</b>	8.3 (2.2)
<b>Oil Pan I (US gal):</b>	7.8 (2.1)
<b>Oil Type:</b>	API CG4 / CH4 15W-40
<b>Cooling Method:</b>	Water

Performance	50 Hz	60 Hz
<b>Engine Speed:</b> RPM	1500	-
<b>Gross Engine Power:</b> kW (hp)		
-Standby:	33.0 (44.0)	-
-Prime:	29.7 (40.0)	-
<b>BMEP:</b> kPa (psi)		
-Standby:	800.0 (116.1)	-
-Prime:	721.0 (104.5)	-
<b>Regenerative Power:</b> kW	7.7	-

Fuel System				
<b>Fuel Filter Type:</b>	Replaceable Element			
<b>Recommended Fuel:</b>	Class A2 Diesel			
<b>Fuel Consumption:</b> l/hr (US gal/hr)				
	<b>110% Load</b>	<b>100% Load</b>	<b>75% Load</b>	<b>50% Load</b>
<b>Prime</b>				
50 Hz	7.9 (2.1)	7.4 (2.0)	5.7 (1.5)	4.0 (1.1)
60 Hz	-	-	-	-
<b>Standby</b>				
50 Hz	7.9 (2.1)	6.1 (1.6)	4.3 (1.1)	
60 Hz	-	-	-	
(based on diesel fuel with a specific gravity of 0.86 and conforming to BS2869, Class A2, EN590)				

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

## 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 prime ratings.

\*Based on 30% voltage dip at 0.9 power factor.

## Alternator Technical Data

Physical Data	
Manufactured for Olympian by:	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)	+/- 0.5%
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:	-

## Technical Data

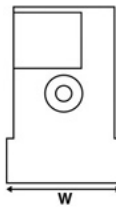
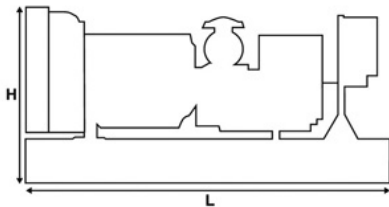
Voltage 50 Hz	Prime		Standby	
	kVA	kW	kVA	kW
240V	24.0	24.0	26.0	26.0
230V	24.0	24.0	26.0	26.0
220V	24.0	24.0	26.0	26.0

Voltage 60 Hz	Prime		Standby	
	kVA	kW	kVA	kW

## Weights & Dimensions

Weights: kg (lb)	
Net (+ lube oil)	827 (1823)
Wet (+ lube oil & coolant)	840 (1852)
Fuel, lube oil & coolant	976 (2153)

Dimensions: mm (in)	
Length	1540 (60.6)
Width	970 (38.2)
Height	1361 (53.6)



**Note:** General configuration not to be used for installation. See general dimension drawings for detail.

## Definitions

### Standby Rating

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3).

### Prime Rating

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

### Standard Reference Conditions

Note: Standard reference conditions 25°C (77°F) air inlet temp, 100m (328ft) A.S.L. 30% relative humidity. Fuel consumption data at full load with diesel fuel with specific gravity of 0.86 and conforming to BS2869: 1998, Class A2.

## General Data

### Documents

A full set of operation and maintenance manuals and circuit wiring diagrams.

### Quality Standards

The equipment meets the following standards: BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.

### Warranty

All prime equipment carries a one year manufacturer's warranty. Standby equipment, limited to 500 running hours per year, has a two year manufacturer's warranty. For details on warranty cover please contact your local Dealer, or visit our website: [www.OlympianPower.com](http://www.OlympianPower.com).

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