OLYMPIAN™



GEP33-6

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 - 3 Phase	Prime*	Standby*	
380-415V,50Hz	30.0 kVA 24.0 kW	33.0 kVA 26.4 kW	
	-		

 * Refer to ratings definitions on page 4. Ratings at $_{0.8}\,$ power factor.

Technical Data				
Engine Make & Model:	Perkins 1103D-33G3	Perkins 1103D-33G3		
Alternator Model:	LL1014S			
Control Panel:	1002T			
Base Frame Type:	Fbc2 - (08Hr)	Fbc2 - (08Hr)		
Circuit Breaker Type:	3 Pole MCB			
Frequency:	50 Hz	60 Hz		
Engine Speed: RPM	1500	-		
Fuel Tank Capacity: litres (US gal)	161 (4	42.5)		
Fuel Consumption, Prime: I/hr (US gal/hr)	7.4 (2.0)	-		
Fuel Consumption, Standby : I/hr (US gal/hr)	8.0 (2.1)	8.0 (2.1) -		

Engine Technical Data

Physical Data	
Manufacturer:	Perkins
Model:	1103D-33G3
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: I (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:	329 (725)
- Wet:	343 (756)

Air System		50 Hz	60 Hz	
Air Filter Type:		Replaceable Element		
Combustion Air Flo	w:			
m³/min (cfm)	-Standby:	2.1 (75)	-	
	-Prime:	2.2 (76)	-	
Max. Combustion A	Air Intake			
Restriction: kPa (i	n H ₂ O)	3.0 (12.0)	-	
Radiator Cooling A	ir Flow:			
m³/min (cfm)		50.4 (1780)	-	
External Restriction	to			
Cooling Air Flow:	Pa (in H ₂ O)	125 (0.5)	-	

Cooling System		50 Hz	60 Hz
Cooling System Ca	pacity:		
l (US gal)		10.2 (2.7)	-
Water Pump Type:		Centrif	ugal
Heat Rejected to W	ater &		
Lube Oil: kW (Btu	/min)		
	-Standby:	24.0 (1365)	-
	-Prime:	21.0 (1194)	-
Heat Radiation to R	oom: Heat radiate	ed from engine and alter	nator
kW (Btu/min)	-Standby:	8.3 (472)	-
	-Prime:	8.3 (472)	-
Radiator Fan Load:	kW (hp)	0.3 (0.4)	-
Cooling system desigr (122°F). Contact your site conditions.			

Lubrication system

Oil Filter Type:	Spin-On, Full Flow
Total Oil Capacity I (US gal):	8.3 (2.2)
Oil Pan I (US gal):	7.8 (2.1)
Oil Type:	API CG4 / CH4 15W-40
Cooling Method:	Water

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

Fuel System

	r Type: ended Fuel: sumption: I/hr	Replaceable Element Class A2 Diesel rr (US gal/hr)			
	110% Load	100% Load	75% Load	50% Load	
Prime					
50 Hz	8.0 (2.1)	7.4 (2.0)	5.7 (1.5)	4.0 (1.1)	
60 Hz	-	-	-	-	
Standby					
50 Hz		8.0 (2.1)	6.2 (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, EN590)					

า	50 Hz	60 Hz
	Indust	rial
uantity:	SD50	(1)
SS		
kPa (in Hg)	0.14 (0.041)	-
uction		
	20	-
ck		
Hg)	15.0 (4.4)	-
-Standby:	5.5 (194)	-
-Prime:	5.3 (185)	-
erature: °C (°F)		
-Standby:	570 (1058)	-
-Prime:	515 (959)	-
	-Prime: erature: °C (°F) -Standby:	Indust Indust SD50 SS KPa (in Hg) 0.14 (0.041) Indust O.14 (0.041) O.14 (0.041) O.14 (0.041) O.14 (0.041) O.14 (0.041) O.14 (0.041) Indust SD50

Alternator Performance Data

		50	Hz				60 Hz		
Data Item	415/240V	400/230V	380/220V						
Motor Starting Capability* kVA	64	60	55	-	-	-	-	-	-
Short Circuit Capacity** %	300	300	300	300	300	300	300	300	300
Reactances: Per Unit									
Xd	1.970	2.120	2.350	-	-	-	-	-	-
X'd	0.100	0.110	0.120	-	-	-	-	-	-
X''d	0.052	0.056	0.062	-	-	-	-	-	-

Reactances shown are applicable to prime ratings. *Based on 30% voltage dip at 0.6 power factor.

Alternator Technical Data

Physical Data	
Manufactured for Olympian by:	OLYMPIAN
Model:	LL1014S
No. of Bearings:	1
Insulation Class:	н
Winding Pitch - Code:	2/3 - 6
Wires:	12
Ingress Protection Rating:	IP23
Excitation System:	SHUNT
AVR Model:	R250

Operating Data		
Overspeed: RPM		2250
Voltage Regulation: (st	teady state)	+/- 0.5 %
Wave Form NEMA = $\frac{1}{2}$	TIF:	50
Wave Form IEC $=$ TH	F:	2.0%
Total Harmonic Content LL/LN:		4.0%
Radio Interference: Supression is in line wit Standard EN61000-6		
Radiant Heat: kW (Btu	/min)	
-50 Hz	<u>.</u>	3.3 (188)
-60 Hz:		-

Technical Data

Voltage 50 Hz	Prime		Standby	
	kVA	kW	kVA	kW
415/240V	30.0	24.0	33.0	26.4
400/230V	30.0	24.0	33.0	26.4
380/220V	30.0	24.0	33.0	26.4

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)	

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

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

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

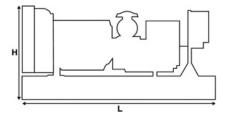
model can supply 10% overload power for 1 hour in 12 hours.

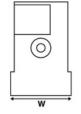
is peak continuous rated (as defined in ISO 8528-3).

Standard Reference Conditions

conforming to BS2869: 1998, Class A2.

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.

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.

	www.OlympianPower.com	
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Definitions

Prime Rating

Standby Rating

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