OLYMPIAN™



GEP165-1

Diesel Generator Set Exclusively from your Cat dealer

Output Ratings				
Generating Set Model	Prime*	Standby*		
380-415V,50Hz	150.0 kVA 120.0 kW	165.0 kVA 132.0 kW		
	-	-		

* Refer to ratings definitions on page 4. Ratings at 0.8 power factor.

Technical Data				
Engine Make & Model:	Perkins 1006TAG2	Perkins 1006TAG2		
Alternator Model:	LL3014H			
Base Frame Type:	Fbc2 - (08Hr)			
Circuit Breaker Type:	3 Pole MCCB	3 Pole MCCB		
Frequency:	50 Hz	60 Hz		
Engine Speed: RPM	1500	-		
Fuel Tank Capacity: litres (US gal)	349	(92.2)		
Fuel Consumption, Prime: I/hr (US gal/hr)	40.9 (10.8)	-		
Fuel Consumption, Standby : I/hr (US gal/hr)	44.7 (11.8)	44.7 (11.8) -		

Engine Techncial Data

Physical Data	
Manufacturer:	Perkins
Model:	1006TAG2
No. of Cylinders/Alignment:	6 / In Line
Cycle:	4 Stroke
Induction:	Turbocharged Air To Air Charge Cooled
Cooling Method:	Water
Governing Type:	Electronic
Governing Class:	ISO 8528 G2
Compression Ratio:	17.0:1
Displacement: I (cu.in)	6.0 (365.5)
Bore/Stroke: mm (in)	100.0 (3.9)/127.0 (5.0)
Moment of Inertia: kg m ² (lb. in ²)	1.61 (5502)
Engine Electrical System:	
-Voltage/Ground:	12/Negative
-Battery Charger Amps:	55
Weight: kg (lb) - Dry:	586 (1292)
- Wet:	630 (1389)

Air System		50 Hz	60 Hz
Air Filter Type:		Replaceable Element	
Combustion Air Flow	v:		
m³/min (cfm)	-Standby:	10.7 (378)	-
	-Prime:	10.1 (357)	-
Max. Combustion A	ir Intake		
Restriction: kPa (in	H ₂ O)	5.0 (20.1)	-
Radiator Cooling Ai	r Flow:		
m³/min (cfm)		221.2 (7811)	-
External Restriction	to		
Cooling Air Flow:	Pa (in H ₂ O)	125 (0.5)	-

Cooling Syster	n	50 Hz	60 Hz	
Cooling System C	apacity:			
l (US gal)		40.2 (10.6)	-	
Water Pump Type	:	Centrif	ugal	
Heat Rejected to	Water &			
Lube Oil: kW (Bt	u/min)			
	-Standby:	73.4 (4174)	-	
	-Prime:	68.5 (3896)	-	
Heat Radiation to	Room:			
kW (Btu/min)	-Standby:	17.0 (967)	-	
	-Prime:	14.0 (796)	-	
Radiator Fan Load	: kW (hp)	4.0 (5.4)	-	
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 (US gal):	19.0 (5.0)
Oil Pan I (US gal):	16.0 (4.2)
Oil Type:	API CD 15W-40
Cooling Method:	Water

Performance	50 Hz	60 Hz
Engine Speed: RPM	1500	-
Gross Engine Power: kW (hp)		
-Standby:	150.7 (202.0)	-
-Prime:	137.0 (184.0)	-
BMEP: kPa (psi)		
-Standby:	2015.0 (292.2)	-
-Prime:	1831.0 (265.6)	-
Regenerative Power: kW	12.6	-

Fuel System

Recomm	Fuel Filter Type: Replaceable Element Recommended Fuel: Class A2 Diesel Fuel Consumption: I/hr (US gal/hr)						
	110% Load	100% 75% 50% Load Load Load					
Prime							
50 Hz	44.7 (11.8)	40.9 (10.8)	31.2 (8.2)	21.1 (5.6)			
60 Hz	-	-	-	-			
Standby	/						
50 Hz		44.7 (11.8)	34.2 (9.0)	23.1 (6.1)			
60 Hz		-	-	-			
(based on diesel fuel with a specific gravity of 0.85 and conforming to BS2869, Class A2)							

Exhaust System	ı	50 Hz	60 Hz
Silencer Type:		Indust	rial
Silencer Noise Redu	iction	SD100	(1)
Pressure Drop Acro	SS		
Silencer System:	kPa (in Hg)	3.31 (0.977)	-
Silencer Noise Redu	iction		
Level: dB		20	-
Max. Allowable Bac	:k		
Pressure: kPa (in. Hg)		6.0 (1.8)	-
Exhaust Gas Flow:			
m³/min (cfm)	-Standby:	31.3 (1105)	-
	-Prime:	29.1 (1028)	-
Exhaust Gas Tempe	erature: °C (°F)		
m ³ /min (cfm) -Standby:		595 (1103)	-
-Prime:		580 (1076)	-

Alternator Performance Data

		50	Hz				60 Hz		
Data Item	415/240V	400/230V 230/115V 200/115V	380/220V 220/110V	220/127V					
Motor Starting Capability* kVA	384	361	331	423	-	-	-	-	-
Short Circuit Capacity** %	300	300	300	300	300	300	300	300	300
Reactances: Per Unit									
Xd	2.580	2.780	3.080	2.150	-	-	-	-	-
X'd	0.090	0.090	0.100	0.070	-	-	-	-	-
X''d	0.052	0.056	0.062	0.043	-	-	-	-	-

Reactances shown are applicable to standby ratings. * Based on 30% voltage dip. ** With optional Permanent Magnet generator or AREP excitation.

Alternator Technical Data

Physical Data	
Manufacturer:	OLYMPIAN
Model:	LL3014H
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 (steady state) (%) : +/- 0.5		
Wave Form NEMA = TIF:	50		
Wave Form IEC = THF:	2.0%		
Total Harmonic Content LL/LN:	4.0%		
Radio Interference: Supression is Standard EN6	in line with European 1000-6		
Radiant Heat: kW (Btu/min)			
-50 Hz:	10.5 (597)		
-60 Hz:	-		

Consult your Olympian representative for more information

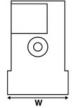
Technical Data 3 Phase Ratings and Performance at 50 Hz, 1500 RPM

Voltage	Prime		Standby	
	kVA	kW	kVA	kW
415/240V	150.0	120.0	165.0	132.0
400/230V	150.0	120.0	165.0	132.0
380/220V	150.0	120.0	165.0	132.0
230/115V	150.0	120.0	165.0	132.0
220/127V	140.0	112.0	154.0	123.2
220/110V	150.0	120.0	165.0	132.0
200/115V	150.0	120.0	165.0	132.0

Weights & Dimensions

Weights: kg (lb)	
Net (+ lube oil)	1654 (3647)
Wet (+ lube oil & coolant)	1695 (3737)
Fuel, lube oil & coolant	1991 (4389)

Dimensions: mm (in)	
Length	2500 (98.4)
Width	1120 (44.1)
Height	1552 (61.1)



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

General Data

Documents

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

Quality Standards

BS4999, BS5000, BSEN60034, BSEN61000, IEC60034.

Warrantv

All equipment carries full manufacturer's warranty.

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 0.85 and conforming to BS2869: 1998, Class A2.

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

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

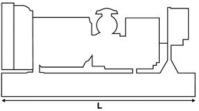
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RPM 3 Phase Ratings and Performance at 60 Hz, -

Prime		Standby	
kVA	kW	kVA	kW



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



LEHF0116-00

Definitions

Prime Rating

Standby Rating