OLYMPIAN[™]



GEP165-1

Diesel Generator Set Exclusively from your Cat[®] dealer

Image shown may not reflect actual package

Output Ratings				
Generating Set Model - 3 Phase	Prime*	Standby*		
400V, 50 Hz	150.0 kVA	165.0 kVA		
	120.0 kW	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:	LL3114J			
Control Panel:	PowerWizard 1.1			
Base Frame Type:	Heavy Duty Fabricated Steel	Heavy Duty Fabricated Steel		
Circuit Breaker Type:	3 Pole MCCB			
Frequency:	50 Hz	60 Hz		
Engine Speed: RPM	1500	-		
Fuel Tank Capacity: litres (US gal)	349 (9	349 (92.2)		
Fuel Consumption, Prime: I/hr (US gal/hr)	41.0 (10.8)	-		
Fuel Consumption, Standby : I/hr (US gal/hr)	44.7 (11.8)	-		

Engine Technical 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 m² (lb. in²)	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	e Element
Combustion Air Flo	w:		
m³/min (cfm)	-Standby:	10.7 (378)	-
	-Prime:	10.1 (357)	-
Max. Combustion A	Air Intake		
Restriction: kPa (i	n H ₂ O)	5.0 (20.1)	-
Radiator Cooling A	ir Flow:		
m³/min (cfm)		231.0 (8158)	-
External Restriction	to		
Cooling Air Flow:	Pa (in H ₂ O)	125 (0.5)	_

Cooling System	1	50 Hz	60 Hz
Cooling System Ca	pacity:		
l (US gal)		21.0 (5.5)	-
Water Pump Type:		Centrif	ugal
Heat Rejected to W	ater &		
Lube Oil: kW (Btu,	/min)		
	-Standby:	73.4 (4174)	-
	-Prime:	68.5 (3896)	-
Heat Radiation to R	oom: Heat radiate	ed from engine and alter	rnator
kW (Btu/min)	-Standby:	27.2 (1547)	-
	-Prime:	22.9 (1302)	-
Radiator Fan Load:	kW (hp)	4.0 (5.4)	-
Cooling system design (122°F). Contact your specific site conditions	local Olympian ^T		

Lubrication System	
Oil Filter Type:	Spin-On, Full Flow
Total Oil Capacity I (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 Syster	n			
Fuel Filter Type: Recommended Fuel:		Replaceable El Class A2 Diese)
Fuel Consump	otion: I/hr ((US gal/hr)		
	10% .oad	100% Load	75% Load	50% Load
Prime 50 Hz 44.7 60 Hz	(11.8)	41.0 (10.8) -	31.3 (8.3)	21.1 (5.6)
Standby 50 Hz 60 Hz		44.7 (11.8) -	-	-
(based on diesel BS2869, Class		a specific gravity	of 0.85 and co	intorming to

Exhaust System	n	50 Hz	60 Hz
Silencer Type:		Indust	rial
Silencer Model & Quantity:		EXSY1	(1)
Pressure Drop Acro	oss		
Silencer System:	kPa (in Hg)	3.31 (0.977)	-
Silencer Noise Red	uction		
Level: dB		20	_
Max. Allowable Ba	ck		
Pressure: kPa (in.	Hg)	6.0 (1.8)	-
Exhaust Gas Flow:			
m³/min (cfm)	-Standby:	31.3 (1105)	_
	-Prime:	29.1 (1028)	_
Exhaust Gas Temp	erature: °C (°F))	
	-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	414	390	358	455	-	1	1	1	1
Short Circuit Capacity** %	300	300	300	300	-	-	-	-	-
Reactances: Per Unit									
Xd	2.834	3.050	3.380	2.185	-	-	-	-	-
X'd	0.136	0.147	0.163	0.105	-	-	-	-	-
X''d	0.082	0.088	0.098	0.063	-	-	-	-	-

Alternator Technical Data

Physical Data	
Manufactured for Olympian by:	OLYMPIAN
Model:	LL3114J
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:		2.0%		
Radio Interference: Supression is Standard EN6		line with European 000-6		
Radiant Heat: kW (Btu/min)				
-50 Hz:		10.2 (580)		
-60 I	Hz:	-		

Reactances shown are applicable to prime ratings.
*Based on 30% voltage dip at 0.6 power factor and SHUNT excitation system.
** With optional Permanent Magnet generator.

Technical Data

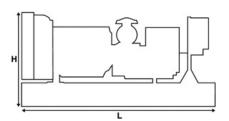
Voltage 50 Hz	Prime		Standby	
	kVA	kW	kVA	kW
415/240V	150.0	120.0	165.0	132.0
400/230V	150.0	120.0	165.0	132.0
380/220V	150.0	120.0	165.0	132.0
230/115V	150.0	120.0	165.0	132.0
220/127V	130.0	104.0	143.0	114.4
220/110V	150.0	120.0	165.0	132.0
200/115V	150.0	120.0	165.0	132.0

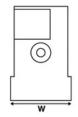
Voltage 60 Hz	Prime		Standb y	
	kVA	kW	kVA	kW

Weights & Dimensions

Weights: kg (lb)		
Net (+ lube oil)	1538 (3391)	
Wet (+ lube oil & coolant)	1559 (3437)	
Fuel, lube oil & coolant	1854 (4087)	

Dimensions: mm (in)		
Length	2500 (98.4)	
Width	1120 (44.1)	
Height	1531 (60.3)	





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 0.85 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.

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