OLYMPIAN™



GEP200-4

Diesel Generator Set Exclusively from your $\operatorname{Cat}^{\circledast}$ dealer

EU Stage II Emissions Compliant

Image shown may not reflect actual package

Output Ratings				
Generating Set Model - 3 Phase	Prime*	Standby*		
380-415V,50Hz	180.0 kVA	200.0 kVA		
	144.0 kW	160.0 kW		
480V, 60 Hz	196.3 kVA	217.5 kVA		
	157.0 kW	174.0 kW		

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

Technical Data				
Engine Make & Model:	Perkins™1106C-E66TAG4			
Alternator Model:	LL5014D			
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	1800		
Fuel Tank Capacity: litres (US gal)	418 (1	110.4)		
Fuel Consumption, Prime: I/hr (US gal/hr)	40.0 (10.6)	44.5 (11.8)		
Fuel Consumption, Standby : I/hr (US gal/hr)	43.9 (11.6)	48.6 (12.8)		

Engine Technical Data

Physical Data	
Manufacturer:	Perkins
Model:	1106C-E66TAG4
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:	16.2:1
Displacement: I (cu.in)	6.6 (402.8)
Bore/Stroke: mm (in)	105.0 (4.1)/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:	10
Weight: kg (lb) - Dry:	788 (1737)
- Wet:	822 (1812)

Air System		50 Hz	60 Hz		
Air Filter Type:		Paper Element			
Combustion Air Fl	ow:				
m³/min (cfm)	-Standby:	11.7 (413)	13.4 (473)		
	-Prime:	11.3 (399)	13.3 (470)		
Max. Combustion	Air Intake				
Restriction: kPa	in H ₂ O)	8.0 (32.1)	8.0 (32.1)		
Radiator Cooling	Air Flow:				
m³/min (cfm)		309.0 (10912)	385.0 (13596)		
External Restrictio	n to				
Cooling Air Flow	: Pa (in H ₂ O)	125 (0.5)	125 (0.5)		

Cooling Syster	n	50 Hz	60 Hz
Cooling System Ca	apacity:		
l (US gal)		27.0 (7.1)	27.0 (7.1)
Water Pump Type:	:	Centr	ifugal
Heat Rejected to V	Vater &		
Lube Oil: kW (Btu	u/min)		
	-Standby:	79.8 (4538)	89.5 (5090)
	-Prime:	72.8 (4140)	82.2 (4675)
Heat Radiation to	Room: Heat radiate	d from engine and alt	ernator
kW (Btu/min)	-Standby:	28.8 (1638)	31.4 (1786)
	-Prime:	25.4 (1444)	28.0 (1592)
Radiator Fan Load	: kW (hp)	6.3 (8.5)	14.7 (19.7)

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

Lubrication system

Oil Filter Type:	Spin-On, Full Flow
Total Oil Capacity I (US gal):	16.5 (4.4)
Oil Pan I (US gal):	15.5 (4.1)
Oil Type:	API CH4 / CI4 15W-40
Cooling Method:	Water

Performance	50 Hz	60 Hz
Engine Speed: RPM	1500	1800
Gross Engine Power: kW (hp)		
-Standby:	180.5 (242.0)	204.3 (274.0)
-Prime:	163.7 (220.0)	185.3 (248.0)
BMEP : kPa (psi)		
-Standby:	2188.0 (317.4)	2064.0 (299.4)
-Prime:	1985.0 (287.9)	1872.0 (271.5)
Regenerative Power: kW	8.8	14.9

Fuel S	system				
Fuel Filt	ter Type:	Replaceable Element			
Recom	mended Fuel:	Class A2 Die	sel		
Fuel Co	nsumption: I/h	r (US gal/hr)			
	110% Load	100% Load	75% Load	50% Load	
Prime					
50 Hz	43.9 (11.6)	40.0 (10.6)	30.7 (8.1)	20.8 (5.5)	
60 Hz	48.6 (12.8)	44.5 (11.8)	35.5 (9.4)	27.3 (7.2)	
Standby	/				
50 Hz		43.9 (11.6)	33.9 (9.0)	23.0 (6.1)	
60 Hz		48.6 (12.8)	38.3 (10.1)	29.0 (7.7)	
(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:		Indus	trial	
Silencer Model & Q	uantity:	SD10	0 (1)	
Pressure Drop Acro	SS			
Silencer System:	kPa (in Hg)	2.14 (0.632)	0.54 (0.159)	
Silencer Noise Redu	iction			
Level: dB		14	12	
Max. Allowable Back				
Pressure: kPa (in. Hg)		10.0 (3.0)	15.0 (4.4)	
Exhaust Gas Flow:				
m³/min (cfm)	-Standby:	31.0 (1095)	34.8 (1229)	
	-Prime:	29.4 (1038)	33.4 (1180)	
Exhaust Gas Tempe	erature: °C (°F)			
	-Standby:	499 (930)	509 (948)	
	-Prime:	480 (896)	485 (905)	

Alternator Performance Data

		50	Hz				60 Hz		
Data Item	415/240V	400/230V 230/115V 200/115V	380/220V 220/110V	220/127V	480/277V 240/139V	380/220V 220/110V	240/120V 208/120V	230/115V	440/254V 220/127V
Motor Starting Capability* kVA	352	331	302	389	387	257	302	282	333
Short Circuit Capacity** %	300	300	300	300	300	300	300	300	300
Reactances: Per Unit									
Xd	2.890	3.110	3.440	2.280	2.820	4.460	3.750	4.050	3.360
X'd	0.146	0.158	0.175	0.116	0.144	0.230	0.190	0.210	0.171
X''d	0.088	0.095	0.105	0.069	0.086	0.136	0.114	0.123	0.102

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.

Alternator Technical Data

Physical Data	
Manufactured for Olympian by:	OLYMPIAN
Model:	LL5014D
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:	Voltage Regulation: (steady state)		
Wave Form NEMA =	TIF:	50	
Wave Form IEC = T	Wave Form IEC = THF:		
Total Harmonic Cont	Total Harmonic Content LL/LN:		
Radio Interference: Supression is in line with European Standard EN61000-6			
Radiant Heat: kW (B	Radiant Heat: kW (Btu/min)		
-50 Hz:		15.1 (859)	
-60 Hz:		15.7 (893)	

Technical Data

Voltage 50 Hz	Prime		Stand	lby
	kVA	kW	kVA	kW
415/240V	180.0	144.0	198.0	158.4
400/230V	180.0	144.0	200.0	160.0
380/220V	180.0	144.0	200.0	160.0
230/115V	180.0	144.0	200.0	160.0
220/127V	160.0	128.0	176.0	140.8
220/110V	180.0	144.0	200.0	160.0
200/115V	180.0	144.0	200.0	160.0

Voltage 60 Hz	Prime		Standby	
	kVA	kW	kVA	kW
480/277V	196.3	157.0	217.5	174.0
220/127V	196.3	157.0	217.5	174.0
380/220V	194.6	155.7	215.1	172.1
240/120V	196.0	156.8	217.0	173.6
230/115V	196.0	156.8	217.0	173.6
440/254V	195.6	156.5	216.4	173.1
220/110V	194.6	155.7	215.1	172.1
208/120V	196.3	157.0	217.5	174.0
240/139V	196.0	156.8	217.0	173.6

Weights & Dimensions

Weights: kg (lb)		
Net (+ lube oil)	1691 (3728)	
Wet (+ lube oil & coolant)	1718 (3788)	
Fuel, lube oil & coolant	2072 (4568)	

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 0.85 and

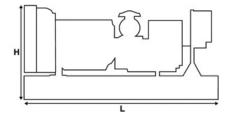
model can supply 10% overload power for 1 hour in 12 hours.

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

Standard Reference Conditions

conforming to BS2869: 1998, Class A2.

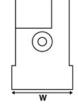
Dimensions: mm (in)		
Length	2500 (98.4)	
Width	1320 (52.0)	
Height	1626 (64.0)	



Definitions

Prime Rating

Standby Rating



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.

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