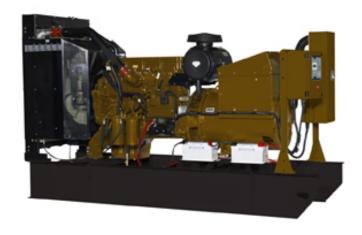
OLYMPIAN™



GEP400-3

Diesel Generator Set Exclusively from your Cat[®] dealer

EU Stage II 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	350.0 kVA 280.0 kW	400.0 kVA 320.0 kW		
	-	-		

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

Technical Data				
Engine Make & Model:	Perkins 2206A-E13TAG2/	Perkins 2206A-E13TAG2/		
Alternator Model:	LL6114B	LL6114B		
Base Frame Type:	Heavy Duty Fabricated Steel	Heavy Duty Fabricated Steel		
Circuit Breaker Type:	3 Pole MCCB	3 Pole MCCB		
Frequency:	50 Hz	60 Hz		
Engine Speed: RPM	1500	-		
Fuel Tank Capacity: litres (US gal)	867 (2	867 (229.0)		
Fuel Consumption, Prime: I/hr (US gal/hr)	71.4 (18.9)	-		
Fuel Consumption, Standby : I/hr (US gal/hr)	79.1 (20.9)	79.1 (20.9)		

Engine Technical Data

Physical Data Manufacturer: Perkins Model: 2206A-E13TAG2/ 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:** 16.3:1 Displacement: I (cu.in) 12.5 (762.8) Bore/Stroke: mm (in) 130.0 (5.1)/157.0 (6.2) Moment of Inertia: kg m² (lb. in²) 2.77 (9465) **Engine Electrical System:** -Voltage/Ground: 24/Negative -Battery Charger Amps: 70 Weight: kg (lb) - Dry: 1301 (2868) - Wet: 1351 (2978)

50 Hz	60 Hz
Paper Element 15"	
dby: 23.6 (833)	-
ime: 21.3 (752)	-
е	
6.4 (25.7)	-
599.4 (21168)	-
₂ O) 125 (0.5)	-
	Paper Element 15" 23.6 (833) ime: 21.3 (752) e 6.4 (25.7) 599.4 (21168)

Cooling System		50 Hz	60 Hz		
Cooling System Capa	acity:				
l (US gal)		45.2 (11.9)	-		
Water Pump Type:		Centrifu	ugal		
Heat Rejected to Wa	ter &				
Lube Oil: kW (Btu/n	nin)				
-s	tandby:	128.5 (7308)	-		
	-Prime:	113.5 (6455)	-		
Heat Radiation to Ro	om: Heat radiate	ed from engine and alterr	nator		
kW (Btu/min)	-Standby:	32.0 (1820)	-		
	-Prime:	24.0 (1365)	-		
Radiator Fan Load: k'	W (hp)	12.0 (16.1)	-		
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:Eco, Full FlowTotal Oil Capacity I (US gal):40.0 (10.6)Oil Pan I (US gal):38.0 (10.0)Oil Type:API CH4 SAE15W-40Cooling Method:Water

Performance	50 Hz	60 Hz
Engine Speed: RPM	1500	=
Gross Engine Power: kW (hp)		
-Standby:	368.4 (494.0)	-
-Prime:	324.2 (435.0)	-
BMEP: kPa (psi)		
-Standby:	2357.0 (341.9)	-
-Prime:	2075.0 (300.9)	-
Regenerative Power: kW	32.0	-

Fuel S	ystem					
Fuel Filter Type:		Replaceable E	Replaceable Element			
	nended Fuel: nsumption: I/bi	Class A2 Die	sel			
. 231 00	Fuel Consumption: I/hr (US gal/hr) 110% 100% 75% 50% Load Load Load Load					
Prime						
50 Hz	79.1 (20.9)	71.4 (18.9)	56.5 (14.9)	40.1 (10.6)		
60 Hz	-	-	-	-		
Standby	1					
50 Hz		79.1 (20.9)	63.1 (16.7)	45.0 (11.9)		
60 Hz		-	-	-		
(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:		Indust	rial
Silencer Model & Qu	antity:	243-627	3 (1)
Pressure Drop Acros	s		
Silencer System: kl	Pa (in Hg)	1.87 (0.552)	-
Silencer Noise Reduc	ction		
Level: dB		13	-
Max. Allowable Back	‹		
Pressure: kPa (in. F	łg)	10.0 (3.0)	-
Exhaust Gas Flow:			
m³/min (cfm)	-Standby:	64.6 (2281)	-
	-Prime:	56.5 (1995)	-
Exhaust Gas Temper	rature: °C (°F)		
	-Standby:	630 (1166)	-
-Prime:		551 (1024)	-

Alternator Performance Data

		50	Hz		60 Hz				
Data Item	415/240V	400/230V	380/220V						
Motor Starting Capability* kVA	797	745	678	'	1	-	1	1	-
Short Circuit Capacity** %	300	300	300	300	300	300	300	300	300
Reactances: Per Unit									
Xd	2.987	3.216	3.563	-	-	-	-	-	-
X'd	0.172	0.185	0.205	-	-	-	-	-	-
X''d	0.120	0.130	0.143	-	-	-		-	

Alternator Technical Data

Physical Data	
Manufacturer:	OLYMPIAN
Model:	LL6114B
No. of Bearings:	1
Insulation Class:	Н
Winding Pitch - Code:	2/3 - 6
Wires:	12
Ingress Protection Rating:	IP23
Excitation System:	SHUNT
AVR Model:	R450M

Operating Data				
Overspeed: RPM		2250		
Voltage Regulation (s	steady state) (%):	+/- 0.5		
Wave Form NEMA =	· TIF:	50		
Wave Form IEC = T	HF:	2.0%		
Total Harmonic Cont	ent LL/LN:	2.0%		
Radio Interference: Supression is in Standard EN610		ne with European 10-6		
Radiant Heat: kW (B	Radiant Heat: kW (Btu/min)			
-50 Hz:		24.1 (1371)		
-60 H	-			

Reactances shown are applicable to standby ratings.

* Based on 30% voltage dip.

** With optional Permanent Magnet generator or AREP excitation.

Technical Data

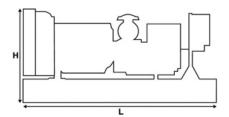
Voltage 50 Hz	Prime		Stand	lby
	kVA	kW	kVA	kW
415/240V	350.0	280.0	400.0	320.0
400/230V	350.0	280.0	400.0	320.0
380/220V	350.0	280.0	400.0	320.0

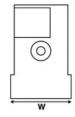
Voltage 60 Hz	Prime		Standby	
	kVA	kW	kVA	kW

Weights & Dimensions

Weights: kg (lb)				
Net (+ lube oil)	2670 (5886)			
Wet (+ lube oil & coolant)	2715 (5986)			
Fuel, lube oil & coolant	3443 (7591)			

Dimensions: mm (in)		
Length	3500 (137.8)	
Width	1110 (43.7)	
Height	2158 (85.0)	





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

BS4999, BS5000, BSEN60034, BSEN61000, IEC60034.

Warranty

All equipment carries full manufacturer's warranty.

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