OLYMPIAN™



GEH275-4

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	250.0 kVA 200.0 kW	275.0 kVA 220.0 kW
	-	-

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

Technical Data				
Engine Make & Model:	Perkins 1306C-E87TAG6	Perkins 1306C-E87TAG6		
Alternator Model:	LL5014J	LL5014J		
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)	350	350 (92.5)		
Fuel Consumption, Prime: I/hr (US gal/hr)	53.3 (14.1)	-		
Fuel Consumption, Standby : I/hr (US gal/hr)	58.1 (15.3)	-		

Engine Technical Data

Physical Data	
Manufacturer:	Perkins
Model:	1306C-E87TAG6
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:	16.9:1
Displacement: I (cu.in)	8.7 (530.9)
Bore/Stroke: mm (in)	116.6 (4.6)/135.9 (5.4)
Moment of Inertia: kg m ² (lb. in ²)	1.54 (5266)
Engine Electrical System:	
-Voltage/Ground:	24/Negative
-Battery Charger Amps:	45
Weight: kg (lb) - Dry:	671 (1479)
- Wet:	698 (1539)

Air System		50 Hz	60 Hz
Air Filter Type:		Paper Element	
Combustion Air Flo	w:		
m³/min (cfm)	-Standby:	22.1 (780)	-
	-Prime:	20.6 (727)	-
Max. Combustion	Air Intake		
Restriction: kPa (i	in H ₂ O)	6.2 (25.0)	-
Radiator Cooling A	Air Flow:		
m³/min (cfm)		349.8 (12353)	-
External Restriction	n 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)		24.7 (6.5)	-
Water Pump Type:		Centrif	ugal
Heat Rejected to W	/ater &		
Lube Oil: kW (Btu	/min)		
-	Standby:	101.0 (5744)	-
	-Prime:	98.0 (5573)	-
Heat Radiation to R	COOM: Heat radiate	ed from engine and alteri	nator
kW (Btu/min)	-Standby:	27.3 (1553)	-
	-Prime:	23.3 (1325)	-
Radiator Fan Load:	kW (hp)	9.9 (13.3)	-
Cooling system desigr (122°F). Contact you site conditions.			

Oil Filter Type: Total Oil Capacity | (US gal):

Lubrication system

Total Oil Capacity I (US gal):	26.4 (7.0)
Oil Pan I (US gal):	22.7 (6.0)
Oil Type:	API CI-4
Cooling Method:	Water

Spin-On, Full Flow

Performance	50 Hz	60 Hz
Engine Speed: RPM	1500	-
Gross Engine Power: kW (hp)		
-Standby:	250.0 (335.0)	-
-Prime:	228.0 (306.0)	-
BMEP: kPa (psi)		
-Standby:	2297.0 (333.2)	-
-Prime:	2095.0 (303.8)	-
Regenerative Power: kW	20.8	-

Fuel System

	er Type: nended Fuel: nsumption: I/hr	Replaceable Element Class A2 Diesel rr (US gal/hr)			
	110% Load	100% Load	75% Load	50% Load	
Prime					
50 Hz	58.1 (15.3)	53.3 (14.1)	42.1 (11.1)	31.7 (8.4)	
60 Hz	-	-	-	-	
Standby	,				
50 Hz		58.1 (15.3)	45.4 (12.0)	33.8 (8.9)	
60 Hz		-	-	-	
(based on diesel fuel with a specific gravity of 0.85 and conforming to BS2869, Class A2)					

Indust	rial
60100	-
SD100	(1)
8.70 (2.569)	-
12	-
10.7 (3.2)	-
44.5 (1572)	-
40.5 (1430)	-
.)	
579 (1074)	-
526 (979)	-
	12 10.7 (3.2) 44.5 (1572) 40.5 (1430)) 579 (1074)

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	623	585	536	686	-	-	-	-	-
Short Circuit Capacity** %	300	300	300	300	300	300	300	300	300
Reactances: Per Unit									
Xd	2.446	2.633	2.917	2.130	-	-	-	-	-
X'd	0.112	0.120	0.133	0.100	-	-	-	-	-
X''d	0.067	0.072	0.080	0.058	-	-	-	-	-

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

Alternator Technical Data

Physical Data	
Manufacturer:	OLYMPIAN
Model:	LL5014J
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 in line with European Standard EN61000-6	
Radiant Heat: kW (Btu/min)	
-50 Hz:	16.3 (927)
-60 Hz:	-

Technical Data

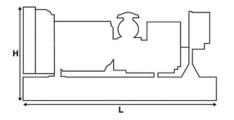
Voltage 50 Hz	Prime		Standby	
	kVA	kW	kVA	kW
415/240V	250.0	200.0	275.0	220.0
400/230V	250.0	200.0	275.0	220.0
380/220V	250.0	200.0	275.0	220.0
230/115V	250.0	200.0	275.0	220.0
220/127V	245.0	196.0	275.0	220.0
220/110V	250.0	200.0	275.0	220.0
200/115V	250.0	200.0	275.0	220.0

Voltage 60 Hz	Prime		Standby	
	kVA	kW	kVA	kW

Weights & Dimensions

Weights: kg (lb)		
Net (+ lube oil)	2165 (4773)	
Wet (+ lube oil & coolant)	2187 (4822)	
Fuel, lube oil & coolant	2483 (5474)	

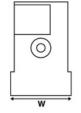
Dimensions: mm (in)		
Length	2960 (116.5)	
Width	1003 (39.5)	
Height	1718 (67.6)	



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

BS4999, BS5000, BSEN60034, BSEN61000, IEC60034.

Warranty

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.

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

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