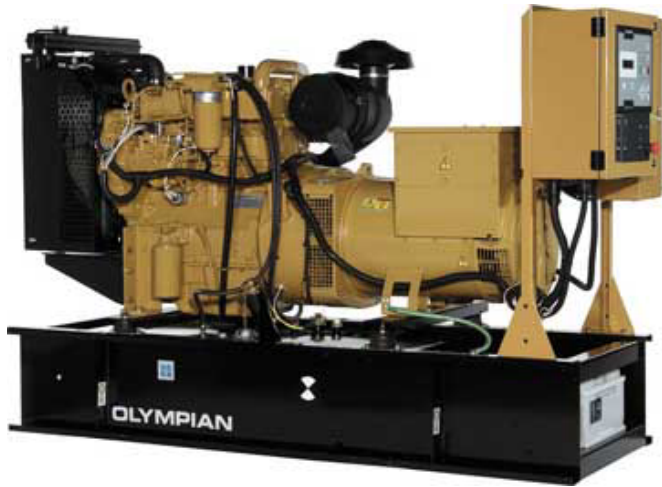


OLYMPIAN™



GEP65-2

*Diesel Generator Set
Exclusively from your Caterpillar® dealer*

Output Ratings		
Generating Set Model	Prime*	Standby*
380-415V, 50Hz	60.0 kVA 48.0 kW	65.0 kVA 52.0 kW
220/127V, 60 Hz	- -	- -

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

Technical Data		
Engine Make & Model:	Perkins 1104C-44TG2/3	
Alternator Model:	LL2014H	
Base Frame Type:	Heavy Duty Fabricated Steel	
Circuit Breaker Type:	3 Pole MCB	
Frequency:	50 Hz	60 Hz
Engine Speed: RPM	1500	-
Fuel Tank Capacity: litres (US gal)	175 (46.2)	
Fuel Consumption, Prime: l/hr (US gal/hr)	14.3 (3.8)	-
Fuel Consumption, Standby : l/hr (US gal/hr)	16.0 (4.2)	-

Engine Technical Data

Physical Data	
Manufacturer:	Perkins
Model:	1104C-44TG2/3
No. of Cylinders/Alignment:	4 / In Line
Cycle:	4 Stroke
Induction:	Turbocharged
Cooling Method:	Water
Governing Type:	Mechanical
Governing Class:	ISO 8528 G2
Compression Ratio:	18.2:1
Displacement: l (cu.in)	4.4 (268.5)
Bore/Stroke: mm (in)	105.0 (4.1)/127.0 (5.0)
Moment of Inertia: kg m ² (lb. in ²)	1.14 (3896)
Engine Electrical System:	
-Voltage/Ground:	12/Negative
-Battery Charger Amps:	65
Weight: kg (lb) - Dry:	463 (1021)
- Wet:	485 (1069)

Air System	50 Hz	60 Hz
Air Filter Type:	Replaceable Element	
Combustion Air Flow:		
m ³ /min (cfm) -Standby:	4.4 (156)	-
-Prime:	4.3 (153)	-
Max. Combustion Air Intake		
Restriction: kPa (in H ₂ O)	8.0 (32.1)	-
Radiator Cooling Air Flow:		
m ³ /min (cfm)	97.8 (3454)	-
External Restriction to		
Cooling Air Flow: Pa (in H ₂ O)	125 (0.5)	-

Cooling System	50 Hz	60 Hz
Cooling System Capacity:		
l (US gal)	13.0 (3.4)	-
Water Pump Type:	Centrifugal	
Heat Rejected to Water & Lube Oil: kW (Btu/min)		
-Standby:	42.0 (2388)	-
-Prime:	38.0 (2161)	-
Heat Radiation to Room:		
kW (Btu/min) -Standby:	12.0 (682)	-
-Prime:	10.0 (569)	-
Radiator Fan Load: kW (hp)	1.0 (1.3)	-

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 l (US gal):	8.0 (2.1)
Oil Pan l (US gal):	7.0 (1.8)
Oil Type:	API-CC/SE
Cooling Method:	Water

Performance	50 Hz	60 Hz
Engine Speed: RPM	1500	-
Gross Engine Power: kW (hp)		
-Standby:	62.5 (84.0)	-
-Prime:	56.2 (75.0)	-
BMEP: kPa (psi)		
-Standby:	1137.0 (164.9)	-
-Prime:	1022.0 (148.2)	-
Regenerative Power: kW	8.1	-

Fuel System				
Fuel Filter Type:	Replaceable Element			
Recommended Fuel:	Class A2 Diesel			
Fuel Consumption: l/hr (US gal/hr)				
	110% Load	100% Load	75% Load	50% Load
Prime				
50 Hz	16.0 (4.2)	14.3 (3.8)	9.8 (2.6)	5.9 (1.6)
60 Hz	-	-	-	-
Standby				
50 Hz		16.0 (4.2)	10.9 (2.9)	6.5 (1.7)
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:	Level 1	
Silencer Noise Reduction	SD50 (1)	
Pressure Drop Across		
Silencer System: kPa (in Hg)	3.30 (0.974)	-
Silencer Noise Reduction		
Level: dB	19	-
Max. Allowable Back		
Pressure: kPa (in. Hg)	15.0 (4.4)	-
Exhaust Gas Flow:		
m ³ /min (cfm) -Standby:	11.8 (417)	-
-Prime:	10.9 (385)	-
Exhaust Gas Temperature: °C (°F)		
m ³ /min (cfm) -Standby:	583 (1081)	-
-Prime:	535 (995)	-

Alternator Performance Data

Data Item	50 Hz				60 Hz				
	415/240V	400/230V	380/220V						
Motor Starting Capability* kVA	148	139	128	-	-	-	-	-	-
Short Circuit Capacity** %	300	300	300	300	300	300	300	300	300
Reactances: Per Unit									
Xd	2.460	2.650	2.940	-	-	-	-	-	-
X'd	0.090	0.100	0.110	-	-	-	-	-	-
X''d	0.046	0.049	0.054	-	-	-	-	-	-

Reactances shown are applicable to standby ratings.

* Based on 30% voltage dip. Improved motor starting capability is available with optional Permanent Magnet generator or AREP excitation.

** With optional Permanent Magnet generator or AREP excitation.

Alternator Technical Data

Physical Data	
Manufacturer:	OLYMPIAN
Model:	LL2014H
No. of Bearings:	1
Insulation Class:	H
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:	Suppression is in line with European Standard EN61000-6
Radiant Heat: kW (Btu/min)	
-50 Hz:	5.8 (330)
-60 Hz:	-

Consult your Olympian representative for more information

