OLYMPIAN[™]





Diesel Generator Set Exclusively from your Cat[®] 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 | 50.0 kVA | 55.0 kVA | | |
| | 40.0 kW | 44.0 kW | | |
| | - | - | | |
| | - | - | | |

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

| Technical Data | | | | | |
|--|------------------------------------|-----------------------------|--|--|--|
| Engine Make & Model: | Perkins [™] 1104C-44TG2/3 | | | | |
| Alternator Model: | LL1514N | | | | |
| Control Panel: | 1002T | | | | |
| Base Frame Type: | Heavy Duty Fabricated Steel | 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) | 219 (5 | 7.9) | | | |
| Fuel Consumption, Prime: I/hr (US gal/hr) | 15.7 (4.1) | - | | | |
| Fuel Consumption, Standby : I/hr (US gal/hr) | 17.2 (4.5) | 17.2 (4.5) - | | | |

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: I (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) |
| | |

| placeable Element 4.4 (156) 4.3 (153) | t _ |
|---|--------|
| | - |
| | - |
| 4.3 (153) | |
| | - |
| | |
| 8.0 (32.1) | - |
| | |
| 97.8 (3454) | - |
| | |
| 125 (0.5) | - |
| | |

| Cooling Syster | n | 50 Hz | 60 Hz |
|--------------------|--------------------|--------------------------|--------|
| Cooling System C | apacity: | | |
| l (US gal) | | 12.6 (3.3) | - |
| Water Pump Type | : | Centrif | ugal |
| Heat Rejected to \ | Nater & | | |
| Lube Oil: kW (Bt | u/min) | | |
| | -Standby: | 42.0 (2388) | - |
| | -Prime: | 38.0 (2161) | - |
| Heat Radiation to | Room: Heat radiate | ed from engine and alter | rnator |
| kW (Btu/min) | -Standby: | 18.4 (1046) | - |
| | -Prime: | 14.2 (808) | - |
| 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 OlympianTM dealer for power ratings at specific site conditions.

Lubrication system

| Oil Filter Type: | Spin-On, Full Flow |
|--------------------------------|--------------------|
| Total Oil Capacity I (US gal): | 8.0 (2.1) |
| Oil Pan I (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 S | ystem | | | | |
|---------|---|--|-------------------|--------------|--|
| | er Type: nended Fuel: nsumption: I/hr | Replaceable Element Class A2 Diesel or BSEN590 r (US gal/hr) | | | |
| | 110% Load | 100% Load | 75% Load | 50% Load | |
| Prime | | | | | |
| 50 Hz | 17.2 (4.5) | 15.7 (4.1) | 11.9 (3.1) | 8.1 (2.1) | |
| 60 Hz | - | - | - | - | |
| Standby | | | | | |
| 50 Hz | | 17.2 (4.5) | 13.1 (3.5) | 8.8 (2.3) | |
| 60 Hz | | - | - | - | |
| | n diesel fuel with Class A2) | a specific gravit | ty of 0.85 and co | onforming to | |

| Exhaust Systen | า | 50 Hz | 60 Hz |
|---------------------|------------------|--------------|-------|
| Silencer Type: | | Indust | rial |
| Silencer Model & Q | uantity: | SD50 | (1) |
| Pressure Drop Acro | SS | | |
| Silencer System: | kPa (in Hg) | 3.30 (0.974) | - |
| Silencer Noise Redu | uction | | |
| Level: dB | | 19 | - |
| Max. Allowable Bac | :k | | |
| Pressure: kPa (in. | Hg) | 12.0 (3.5) | - |
| Exhaust Gas Flow: | | | |
| m³/min (cfm) | -Standby: | 10.0 (353) | - |
| | -Prime: | 9.0 (318) | - |
| Exhaust Gas Tempe | erature: °C (°F) | | |
| | -Standby: | 493 (919) | - |
| | -Prime: | 446 (835) | - |
| | | | |

Alternator Performance Data

| | | 50 | Hz | | | | 60 Hz | | |
|-----------------------------------|----------|----------|----------|---|---|---|-------|---|---|
| Data Item | 415/240V | 400/230V | 380/220V | | | | | | |
| Motor Starting Capability* kVA | 121 | 115 | 107 | - | - | - | - | - | _ |
| Short Circuit Capacity** % | 300 | 300 | 300 | - | - | - | - | - | - |
| Reactances: Per Unit | | | | | | | | | |
| Xd | 2.480 | 2.670 | 2.958 | - | - | - | - | - | - |
| X'd | 0.132 | 0.142 | 0.157 | - | - | - | - | - | - |
| X''d | 0.066 | 0.071 | 0.079 | - | - | - | - | - | - |

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: | LL1514N |
| No. of Bearings: | 1 |
| Insulation Class: | н |
| Winding Pitch - Code: | 2/3 - 6 |
| Wires: | 12 |
| Ingress Protection Rating: | IP23 |
| Excitation System: | SHUNT |
| AVR Model: | R220 |

| Operating Data | | | | |
|-------------------------------|---|-----------|--|--|
| Overspeed: RPM | | 2250 | | |
| Voltage Regulation: (| steady state) | +/- 1.0% | | |
| Wave Form NEMA = | TIF: | 50 | | |
| Wave Form IEC = THF: | | 2.0% | | |
| Total Harmonic Content LL/LN: | | 2.0% | | |
| Radio Interference: | adio Interference: Supression is in line with European Standard EN61000-6 | | | |
| Radiant Heat: kW (Btu/min) | | | | |
| -50 Hz: | | 5.4 (307) | | |
| -60 Hz: | | - | | |

Technical Data

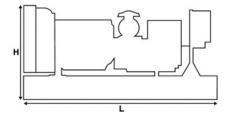
| Voltage 50 Hz | Prime | | Standby | |
|------------------|-------|------|---------|------|
| | kVA | kW | kVA | kW |
| 415/240V | 50.0 | 40.0 | 55.0 | 44.0 |
| 400/230V | 50.0 | 40.0 | 55.0 | 44.0 |
| 380/220V | 50.0 | 40.0 | 55.0 | 44.0 |
| | | | | |
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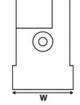
| Voltage 60 Hz | Prime | | Standby | |
|------------------|-------|----|---------|----|
| | kVA | kW | kVA | kW |
| | | | | |
| | | | | |
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| | | | | |
| | | | | |

Weights & Dimensions

| Weights: kg (lb) | | |
|----------------------------|-------------|--|
| Net (+ lube oil) | 903 (1990) | |
| Wet (+ lube oil & coolant) | 916 (2019) | |
| Fuel, lube oil & coolant | 1072 (2363) | |

| Dimensions: mm (in) | | |
|---------------------|-------------|--|
| Length | 1925 (75.8) | |
| Width | 1120 (44.1) | |
| Height | 1361 (53.6) | |





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 $25 \,^{\circ}$ C (77 $^{\circ}$ 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.

Market: International

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