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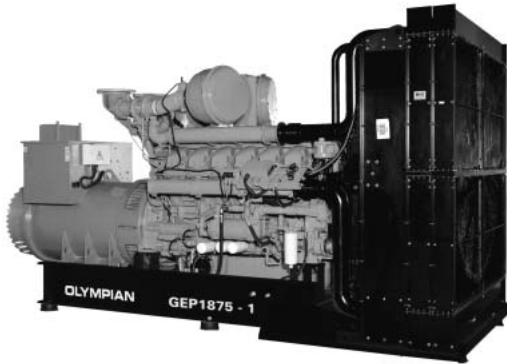


Image shown may not reflect actual package

FEATURES

GENERATOR SET

- Complete system designed and built at ISO 9001 certified facility
- Factory tested to design specifications at full load conditions
- Fully engineered with a range of options and accessories

ENGINE

- Industrial water cooled diesel engine
- Isochronous electronic speed control
- Governor, electronic
- Electrical systems, 24 VDC
- Cartridge type fuel and oil filters
- Air filter
- Lube oil drain valve
- Battery(ies), rack and cables

GENERATOR

- Self excited brushless generator
- Insulation system, class H
- Drip proof generator air intake (IP23)
- Electrical design in accordance with BS5000 Part 99, IEC60034-1, VDE0530, UTE51100

CONTROL SYSTEM

- PowerWizard 1.0 control panel
- Vibration isolated sheet steel enclosure with hinged lockable door

MOUNTING ARRANGEMENT

- Heavy-duty fabricated steel base with lifting points
- Anti-vibration pads to ensure vibration isolation
- Generator coupled to engine by flexible disc-coupling

GEP1875-1 (3-phase)

Standby 1875 kVA/1500 kW

50 Hz

EXHAUST SYSTEM

- Heavy duty industrial capacity exhaust silencer (approximately 10 dBA reduction) supplied loose

COOLING SYSTEM

- Standard ambient temperature
- Fan, fan drive and charging alternator fully guarded
- Coolant drain valve
- Antifreeze protection coolant

CIRCUIT BREAKER

- 3-pole molded case circuit breaker (MCCB)
- Vibration isolated sheet steel enclosure with removable cover plate
- Outgoing cable stub-up area directly below circuit breaker

AUTOMATIC VOLTAGE REGULATOR

- Voltage regulation $\pm 0.5\%$
- Provides fast recovery from transient load changes

EQUIPMENT FINISH

- All electroplated hardware
- Anticorrosive paint protection
- High gloss polyurethane paint for durability and scuff-resistance

QUALITY STANDARDS

- BS4999, BS5000, BS5514, IEC60034, VDE0530

DOCUMENTATION

- Operation and maintenance manuals provided
- Wiring diagrams included

WARRANTY

- All equipment carries full manufacturer's warranty

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OPTIONAL EQUIPMENT*

System	Optional
Engine / Baseframe	<input type="checkbox"/> Lube oil drain pump <input type="checkbox"/> Lube oil temperature shutdown <input type="checkbox"/> Oil temperature gauge (includes wiring) (not for PowerWizard 2.0) <input type="checkbox"/> Lube oil temperature displayed on panel LCD system (only available with PowerWizard 2.0)
Generator	<input type="checkbox"/> Anti- condensation heater <input type="checkbox"/> Permanent magnet+ R450 Regulator <input type="checkbox"/> Permanent magnet+ R450 Regulator + R731 3-phase sensing module <input type="checkbox"/> AREP winding + R450 Regulator + R731 3-phase sensing module <input type="checkbox"/> Quadrature droop kit
Cooling System	<input type="checkbox"/> Coolant heater 220/240 Volt <input type="checkbox"/> Low coolant temperature alarm <input type="checkbox"/> Radiator transition flange <input type="checkbox"/> 50% antifreeze
Silencer	<input type="checkbox"/> Residential silencer with mounting kit <input type="checkbox"/> Critical silencer with mounting kit <input type="checkbox"/> Stainless steel bellows
Enclosures	<input type="checkbox"/> Consult you Cat dealer for options
Control System	<input type="checkbox"/> Panel upgrade with PowerWizard 2.0 <input type="checkbox"/> Panel functions upgrades <ul style="list-style-type: none"> - Panel lockdown stop pushbutton with security key - Set of volt free contacts for common alarm - Volt free contacts for genset running - Speed adjust potentiometer - Voltage adjust potentiometer - Battery trickle charger ammeter - Audible alarm siren, supplied loose - Panel mounted audible alarm - Additional shutdowns with individual warning lamps - Static batter charger - Static batter charger with boost control 220/240V <input type="checkbox"/> 6100 and 6200 Series control panel and function options
Remote Annunciator	<input type="checkbox"/> PowerWizard annunciator (only with PowerWizard 2.0)
Remote Monitoring and Control	<input type="checkbox"/> PowerWizard remote monitoring and control (only with PowerWizard 2.0)
Circuit Breaker	<input type="checkbox"/> Upgrades from 3-pole to 4-pole breakers (2500A and 3200A) <input type="checkbox"/> AC power looms (floor standing, 2500A and 3200A)
Transfer Switches	<input type="checkbox"/> TI Series load transfer panels and bypass switches (2500A and 3200A)
Certification	<input type="checkbox"/> Upgrade to CE Certification

*Some options may not be available on all models.
 Not all options are listed

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SPECIFICATIONS

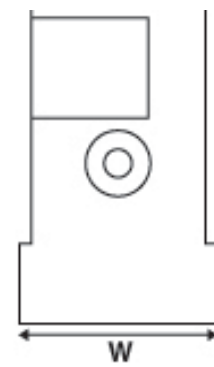
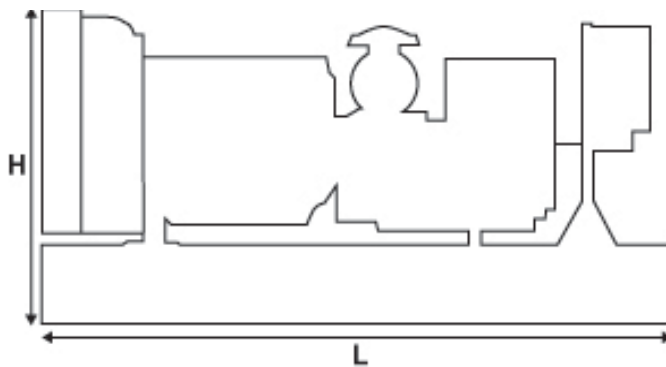
ENGINE

ManufacturerPerkins
 Model.....4012-46TAG3A
 Type.....4 Stroke
 AspirationTurbocharged Air-to-Air Charge Cooled
 Cylinder configuration.....12/Vee
 Displacement — L (cu in)45.8 (2,794.9)
 Bore/Stroke — mm (in)160.0 (6.3)/190.0 (7.5)
 Compression ratio13.0:1
 Engine speed (rpm)1,500
 Maximum power at rated rpm — kW (hp)
 50 Hz Standby.....1643.0 (2,203.0)
 BMEP — kPa (psi)
 50 Hz Standby.....2868.0 (415.9)
 Regenerative power — kW120.0
 Governor
 Type.....Electronic
 Class.....ISO 8528 G2

GENERATOR

ManufacturerOlympian
 ModelLL9124H
 No. of bearings1
 Insulation classH
 Winding pitch code2/3 – 6S
 Wires6
 Ingress protection ratingIP23
 Excitation systemAREP
 AVR modelR450
 Overspeed (rpm)2,250
 Voltage regulation (steady state) (%).....±0.5
 Wave Form NEMA = TIF.....50
 Wave Form IEC = THF2.0%
 Total harmonic content LL/LN2.5%
 Radio interference.....Suppression is in line with European
 Standard EN61000-6
 Radiant heat — kW (Btu/min).....65.6 (3,731)

GENERATOR SET DIMENSIONS AND WEIGHTS



Model	Length	Width	Height	Weight*
GEP1875-1	5215 mm (205.3 in)	2205 mm (86.8 in)	2490 mm (98.0 in)	11 115 kg (24,504 lb)

*Includes oil and coolant

Note: Dimensions not for installation. See general dimension drawings for detail.

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TECHNICAL DATA

Generator Set — 50 Hz			Standby	
Package Performance Power rating	kVA (kW)		1875 (1500)	
Lubricating System Type Oil filter Oil cooler Oil type Total oil capacity Oil pan capacity			Wet sump Spin-on, full flow Water API CG4 15W-40	
	L	Gal	177	46.8
	L	Gal	159	42
Fuel System Fuel tank capacity Fuel consumption* 100% load 75% load 50% load	L	Gal		
	L/hr	Gal/hr	391	103.3
	L/hr	Gal/hr	287.1	75.8
	L/hr	Gal/hr	198.3	52.4
Engine Electrical System Voltage/Ground Battery charger alternator current			24 VDC/negative 40	
Cooling System Water pump type Cooling system capacity Heat rejected to coolant and lube oil Heat rejected to engine room Radiator fan load	L	Gal	Centrifugal	
	kW	Btu/min	212	56
	kW	Btu/min	625	35,543
	kW	hp	123	6,995
	kW	hp	64	85.8
Air Requirements Combustion air flow Max. combustion air intake restriction Radiator cooling air flow External restriction to cooling air flow	m ³ /min	cfm	135	4,767
	kPa	in H ₂ O	4	16.1
	m ³ /min	cfm	1920	67,804
	kPa	in H ₂ O	250	1
Exhaust System Maximum allowable backpressure Exhaust flow rate Exhaust temperature (dry)	kPa	in Hg	5	1.5
	m ³ /min	cfm	350	12,360
	Deg C	Deg F	480	896

*Fuel consumption data at indicated load with diesel fuel with a specific gravity of 0.85 and conforming to BS2869, Class A2.

Generator Technical Data	50 Hz		
	415/240V	400/230V	380/220V
Motor starting capability* (SkVA)	6986	6509	5897
Short circuit capability** (%)	300	300	300
Reactance per unit			
X _d	2.740	2.950	3.270
X' _d	0.210	0.220	0.250
X'' _d	0.107	0.116	0.128

*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.

Note: Reactance shown are applicable to prime ratings.

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RATINGS AT AVAILABLE VOLTAGES

50 Hz Standby			
Voltage Code	Voltage	kVA	kW
V502	415/240	1875	1500
V503	400/230	1875	1500
V504	380/220	1875	1500

Ratings at 27° C (80° F) air inlet temperature, 152.4 m (500 ft) A.S.L., 60% relative humidity, 0.8 pf.

RATING DEFINITIONS

STANDBY

These ratings are applicable for supplying continuous electric power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternators on these models are peak continuous rated (as defined in ISO 8528-3).

STANDBY 1875 kVA/1500 kW
50 Hz

OLYMPIAN™

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