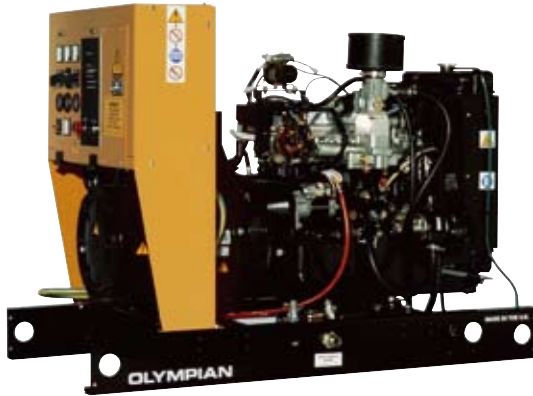


Exclusively from your Caterpillar® dealer



GEUHG24S1

50 HZ	
STANDBY	24.0 kVA
60 HZ	
STANDBY	25.0 kVA

Ratings applicable for LP Gas.
See page 4 for Natural Gas ratings

FEATURES

GENERATING SET

- Complete system designed and built at ISO9001 certified facility
- Factory tested to design specifications at full load conditions
- Fully engineered with a range of options and accessories

ENGINE

- Industrial water cooled natural gas engine
- Governor, electronic
- Electrical system, 12 VDC
- Cartridge type fuel and oil filters
- Air filter
- Battery(ies), rack and cables
- Gas shutoff valve, solenoid operated
- Gas pressure regulator
- Low oil pressure shutdown

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

CONTROL SYSTEM

- 2001K Autostart 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
- Engine coupled to generator with flexible disc coupling
- Coolant and lube oil drains piped to edge of base

COOLING SYSTEM

- Standard ambient temperatures up to 43° C (110° F)
- Fan, fan drive and charging alternator fully guarded
- Antifreeze protection coolant
- High coolant temperature shutdown
- Low coolant level shutdown
- Low coolant temperature alarm

CIRCUIT BREAKER

- 3-pole miniature circuit breaker (mcb)
- Vibration isolated sheet steel enclosure
- Outgoing cable stub-up area directly below circuit breaker

AUTOMATIC VOLTAGE REGULATOR

- Voltage regulation $\pm 1\%$
- 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, BSEN60034, BSEN61000, IEC60034

DOCUMENTATION

- Operation and maintenance manuals provided
- Wiring diagrams included

WARRANTY

- All equipment carries full manufacturer's warranty

5 0 H z S T A N D B Y 2 4 . 0 k V A
 6 0 H z S T A N D B Y 2 5 . 0 k V A

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OPTIONAL EQUIPMENT*

Generator	Anti-condensation heater
Cooling System	Coolant heater Radiator transition flange
Fuel System	Low coolant temperature alarm Low gas pressure alarm Gas installation kit
Silencer System — Open Unit	Level 2 silencer system (25 dB(A)) Level 3 silencer system (35 dB(A)) Mounting kit Through wall installation kits
Enclosures	Sound attenuated enclosure (includes internal silencer system)
Circuit Breaker	Earth leakage protection, CB trip
Transfer Switches	TM Series manual transfer switches TC Series compact automatic transfer switches ATI Series intelligent automatic transfer switches
Certification	European CE certification (not available on 60 Hz models)

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

Consult your Olympian representative for more information

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GEUHG24S1 (1-Phase) 50 Hz

Generator Set Technical Data		LP Gas	Natural Gas
		Standby	Standby
Package Performance Power rating	kVA (kW)	24.0 (24.0)	24.0 (24.0)
Lubricating System Type: Full pressure Oil filter: Spin-on, full flow Oil type required: API CF-4 Total lube system capacity Oil pan capacity	L (U.S. Gal) L (U.S. Gal)	4.5 (1.18) 4.0 (1.05)	4.5 (1.18) 4.0 (1.05)
Fuel System Generator set fuel consumption 100% load 75% load 50% load	m³/hr (cfh) m³/hr (cfh) m³/hr (cfh)	4.5 (158) 3.4 (119) 2.4 (85.3)	11.5 (405) 8.7 (306) 6.2 (219)
Engine Electrical System Ignition system: Electronic, Distributorless Voltage/ground: 12 vDC/negative Battery charging alternator ampere rating	amps	45	45
Cooling System Water pump type: Centrifugal Cooling system capacity Maximum coolant static head Coolant flow rate Minimum temperature to engine Temperature rise across engine Heat rejected to coolant at rated power Total heat radiated to room at rated power Radiator fan load	L (U.S. Gal) m H ₂ O (ft H ₂ O) L/hr (U.S. gal/hr) °C (°F) °C (°F) kW (Btu/min) kW (Btu/min) kW (hp)	6.1 (1.61) 6.8 (22.4) 4500 (1189) 76 (169) 4.6 (8.28) 28.4 (1616) 15.0 (853) 1.60 (2.15)	6.1 (1.61) 6.8 (22.4) 4500 (1189) 76 (169) 4.5 (8.10) 28.4 (1616) 15.0 (853) 1.60 (2.15)
Air Requirements Combustion air flow Maximum air cleaner restriction Radiator cooling air Generator cooling air External restriction to cooling airflow	m³/min (cfm) kPa (in H ₂ O) m³/min (cfm) m³/min (cfm) Pa (in H ₂ O)	2.63 (92.9) 1.5 (6.0) 102 (3602) 13.2 (466) 247 (1.0)	2.50 (88.4) 1.5 (6.0) 102 (3602) 13.2 (466) 247 (1.0)
Exhaust System Maximum allowable backpressure Exhaust flow at rated power Exhaust temperature at rated power (dry exhaust)	kPa (in Hg) m³/min (cfm) °C (°F)	17.3 (5.12) 8.3 (292) 625 (1157)	17.3 (5.12) 8.4 (295) 635 (1175)
Generator Set Noise Rating* (without attenuation) at 1 m (3.28 ft)	dBA	94.2	94.2

*dBA levels are for guidance only

Generator Technical Data	50 Hz		
	240V	230V	220V
Motor Starting Capability: Self Excited (kVA)	38.0	36.0	34.0
Full Load Efficiency Standby %	86.5	86.1	85.6
Reactances (per unit)			
X _d	2.67	2.90	3.17
X' _d	0.14	0.15	0.16
Reactances X ["] _d are shown	0.067	0.073	0.079
X _q	1.33	1.45	1.58
applicable to the standby LPG rating	0.104	0.113	0.124
X ₂	N/A	N/A	N/A
X ₀	N/A	N/A	N/A
Time Constants:	t' _d 40 ms	t'' 5 ms	t' _{do} 775 ms
			t _a 10 ms

Consult your Olympian representative for more information

50 Hz STANDBY 24.0 kVA
 60 Hz STANDBY 25.0 kVA

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GEUHG24S1 (1-Phase) 60 Hz

Generator Set Technical Data		LP Gas	Natural Gas
		Standby	Standby
Package Performance Power rating	kVA (kW)	25.0 (25.0)	25.0 (25.0)
Lubricating System Type: Full pressure Oil filter: Spin-on, full flow Oil type required: API CF-4 Total lube system capacity Oil pan capacity	L (U.S. Gal) L (U.S. Gal)	4.5 (1.18) 4.0 (1.05)	4.5 (1.18) 4.0 (1.05)
Fuel System Generator set fuel consumption 100% load 75% load 50% load	m³/hr (cfh) m³/hr (cfh) m³/hr (cfh)	4.9 (173) 3.7 (131) 2.6 (93.1)	12.5 (443) 9.5 (337) 6.8 (239)
Engine Electrical System Ignition system: Electronic, Distributorless Voltage/ground: 12 vDC/negative Battery charging alternator ampere rating	amps	45	45
Cooling System Water pump type: Centrifugal Cooling system capacity Maximum coolant static head Coolant flow rate Minimum temperature to engine Temperature rise across engine Heat rejected to coolant at rated power Total heat radiated to room at rated power Radiator fan load	L (U.S. Gal) m H ₂ O (ft H ₂ O) L/hr (U.S. gal/hr) °C (°F) °C (°F) kW (Btu/min) kW (Btu/min) kW (hp)	6.1 (1.61) 9.6 (31.5) 5400 (1426) 76 (169) 4.5 (8.10) 30.8 (1748) 16.2 (922) 2.80 (3.75)	6.1 (1.61) 9.6 (31.5) 5400 (1426) 76 (169) 4.5 (8.10) 30.8 (1748) 16.2 (922) 2.80 (3.75)
Air Requirements Combustion air flow Maximum air cleaner restriction Radiator cooling air Generator cooling air External restriction to cooling airflow	m³/min (cfm) kPa (in H ₂ O) m³/min (cfm) m³/min (cfm) Pa (in H ₂ O)	3.16 (112) 1.5 (6.0) 124 (4386) 15.6 (551) 247 (1.0)	3.03 (107) 1.5 (6.0) 124 (4386) 15.6 (551) 247 (1.0)
Exhaust System Maximum allowable backpressure Exhaust flow at rated power Exhaust temperature at rated power (dry exhaust)	kPa (in Hg) m³/min (cfm) °C (°F)	17.3 (5.12) 10.4 (367) 668 (1234)	17.3 (5.12) 10.5 (368) 675 (1247)
Generator Set Noise Rating* (without attenuation) at 1 m (3.28 ft)	dBA	TBA	TBA

*dBA levels are for guidance only

Generator Technical Data	60 Hz			
	240/120V		220/110V	
Motor Starting Capability: Self Excited (kVA)	34.0		31.0	
Full Load Efficiency Standby %	85.6		84.2	
Reactances (per unit)	Xd	3.33	3.97	
	X'd	0.17	0.20	
Reactances	X" d	0.083	0.099	
are shown	Xq	1.67	1.98	
applicable to the	X" q	0.130	0.155	
standby LPG rating	X2	N/A	N/A	
	X0	N/A	N/A	
Time Constants:	t'd	t"	t'do	ta
	40 ms	5 ms	775 ms	10 ms

Consult your Olympian representative for more information

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 6 0 H z S T A N D B Y 2 5 . 0 k V A

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RATINGS AT AVAILABLE VOLTAGES

50 Hz			
Voltage Code	Voltage	Standby - kVA (kW)	
		LP	Natural
VOPT525	220	24.0 (24.0)	24.0 (24.0)
VOPT523	230	24.0 (24.0)	24.0 (24.0)
VOPT521	240	24.0 (24.0)	24.0 (24.0)

60 Hz			
Voltage Code	Voltage	Standby - kVA (kW)	
		LP	Natural
VOPT626	220/110	25.0 (25.0)	25.0 (25.0)
VOPT622	240/120	25.0 (25.0)	25.0 (25.0)

Ratings at 27° C (80° F), 152.4 m (500 ft), 60% humidity, 1.0 pf

RATING DEFINITIONS

STANDBY

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. When used at standby rating the alternator will be peak continuous rated (as defined in ISO8528-3).

PRIME POWER

These ratings are applicable for supplying continuous 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.