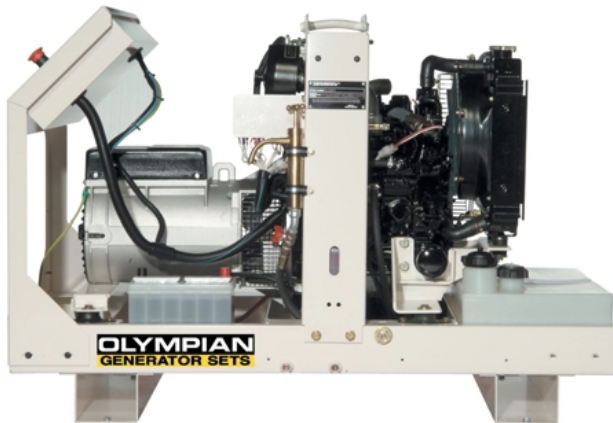


Exclusively from your Caterpillar® dealer



GEK6SP-1 (1-Phase)

50 HZ
STANDBY 6kVA / 6kW
PRIME 5.5kVA / 5.5kW

FEATURES

GENERATING SET

- Complete system designed and built at ISO8528 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
- Governor, mechanical
- Electrical system, 12 VDC
- Cartridge type fuel and oil filters
- Air filter
- Battery(s), rack and cables

GENERATOR

- Self excited brushless generator
- Insulation system, class H
- Drip proof generator air intake (IP23)
- Electrical design in accordance with BS4999, BS5000, BSEN60034, BSEN61000, IEC60034

CONTROL SYSTEM

- Access 1500 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
- Baseframe incorporates integral plastic fuel tank, 8 hours running capacity

EXHAUST SYSTEM

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

COOLING SYSTEM

- Standard ambient temperatures up to 50° C (122° F)
- Fan, fan drive and charging alternator fully guarded
- Antifreeze protection coolant

CIRCUIT BREAKER

- 3-pole miniature circuit breaker (mcb) < 160 amps and 3-pole molded case circuit breaker (mccb) >= 160 amps
- Vibration isolated sheet steel enclosure with removable cover plate
- Outgoing cable stub-up area directly below circuit breaker

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. Extended warranty terms available

50 Hz

STANDBY
PRIME

6 kVA / 6 kW
5.5 kVA / 5.5 kW

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OPTIONAL EQUIPMENT*

| | |
|--------------------------|--|
| Handling/Trailers | Mobile trolley kit |
| Controls | Changeover panels |
| Circuit Breaker | CEE Form sockets, quantity dependant on rating |

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

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SPECIFICATIONS



GENERATOR

Make..... Mecc Alte
 Model AC03-160/4
 Type..... Capacitor brushless
 Voltage regulation N/A
 Frequency..... N/A
 Waveform distortion N/A
 Radio interference N/A
 Telephone Interference..... N/A
 Overspeed limit N/A
 Insulation..... Class H
 Temperature rise Within Class H limits

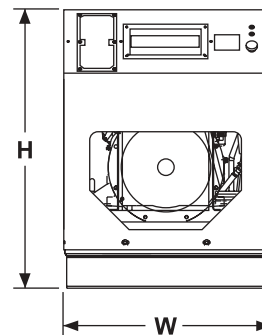
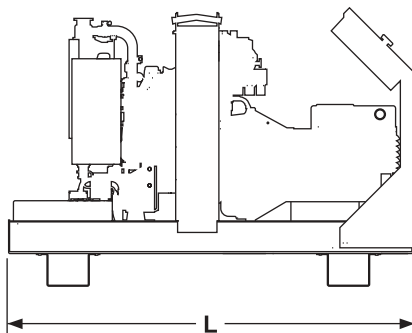


ENGINE

Manufacturer Kubota
 Model D905
 Type..... Vertical, watercooled 4 cycle diesel
 Aspiration..... N/A
 Cylinder configuration In line
 Displacement — L (cu in) 0.898 (54.80)
 Bore/stroke — mm (in)..... 72.0/73.6 (2.83/2.90)
 Compression ratio..... 23:1
 Engine speed — rpm
 50 Hz 1500

Piston speed — m/sec (ft/sec)
 50 Hz 3.68 (12.08)
 Maximum power at rated rpm — kW (hp)
 Standby
 50 Hz 7.38 (9.9)
 Prime
 50 Hz 6.7 (9.0)
 BMEP — kPa (psi)
 Standby
 50 Hz..... TBA
 Prime
 50 Hz..... TBA
 Regenerative power — kW (hp)
 50 Hz..... TBA
 Motor starting capability — kW (hp)
 50 Hz 0.9 (1.21)
 Governor
 Type Centifugal flyweight mechanical
 Class G2

GENERATING SET DIMENSIONS AND WEIGHTS



| Model | Length mm (in) | Width mm (in) | Height mm (in) | Weight* kg (lb) |
|----------|-------------------|------------------|-------------------|--------------------|
| GEK6SP-1 | 1400 (55.1) | 740 (29.1) | 1038 (40.9) | 327 (721) |

Note: General configuration not to be used for installation. See general dimension drawings for detail.

*Includes oil and coolant

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GEK6SP-1 (1-Phase) 50 Hz

| Generating Set Technical Data | | Standby | Prime |
|---|---|---|---|
| Package Performance Power rating | kVA (kW) | 6.0 (6) | 5.5 (5.5) |
| Lubricating System Type: Oil pump & lubrication sump Oil filter: Spin-on, full flow Oil cooler: Water Oil type required: API CD 15W-40 Total lube system capacity Oil pan capacity | L (U.S. Gal) L (U.S. Gal) | 5.1 (1.35) TBA | 5.1 (1.35) TBA |
| Fuel System Fuel Tank Capacity Generating set fuel consumption** 100% load | L (U.S. Gal) L/hr (U.S. g/hr) | 30.0 (7.9) 2.29 (0.60) | 30.0 (7.9) 2.09 (0.55) |
| Engine Electrical System Voltage/ground: 12 vDC/negative Battery charging alternator ampere rating | amps | 30 | 30 |
| 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) | 3.41 (0.9) 8.99 (29.5) 1624 (429) TBA TBA 7.26 (413) TBA 0.19 (0.25) | 3.41 (0.9) 8.99 (29.5) 1624 (429) TBA TBA 7.26 (413) TBA 0.19 (0.25) |
| Air Requirements Combustion air flow Maximum air cleaner restriction Radiator cooling air Generator cooling air | m ³ /min (cfm) kPa (in H ₂ O) m ³ /min (cfm) m ³ /min (cfm) | 0.586 (20.7) 4.9 (19.7) 22.0 (777) 4.0 (141) | 0.586 (20.7) 4.9 (19.7) 22.0 (777) 4.0 (141) |
| Exhaust System Maximum allowable backpressure Exhaust flow at rated power Exhaust temperature at rated power (dry exhaust) | kPa (in Hg) m ³ /min (cfm) °C (°F) | 5.0 (1.476) 1.62 (57) 373 (703.4) | 5.0 (1.476) 1.62 (57) 373 (703.4) |
| Generating Set Noise Rating* (without attenuation) at 1 m (3.28 ft) | dBA | TBA | TBA |

*dBA levels are for guidance only

**Fuel consumption data at indicated load with diesel fuel with a specific gravity of 0.85 and conforming to BS2869:1998 Class A2.

| Generator Technical Data | 50 Hz | | | |
|------------------------------|---------|---------|---------|---------|
| | 230V | | | |
| Full Load Efficiency | | | | |
| Standby | % | 80.0 | | |
| Prime | % | 80.0 | | |
| Reactances (per unit) | Xd | TBA | | |
| Saturated | X'd | TBA | | |
| Reactances | X''d | TBA | | |
| are shown | Xq | TBA | | |
| applicable to the | X''q | TBA | | |
| standby rating | X2 | TBA | | |
| | X0 | TBA | | |
| Time Constants: | t'd | t''d | t'do | ta |
| | TBA ms. | TBA ms. | TBA ms. | TBA ms. |

*Exclusively from your Caterpillar® dealer***RATINGS AT AVAILABLE VOLTAGES**

| | | 50 Hz | | | |
|--------------|---------|---------|----|-------|-----|
| Voltage Code | Voltage | Standby | | Prime | |
| | | kVA | kW | kVA | kW |
| VOPT523 | 230 | 6 | 6 | 5.5 | 5.5 |

Ratings at 27° C (80° F), 152.4 m (500 ft), 60% humidity, 0.8 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.

50 Hz

STANDBY
PRIME

6 kVA / 6 kW
5.5 kVA / 5.5 kW

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European sourced

LEHF3095 (06/03)

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The International System of Units (SI) is used in this publication.