

Feature Code	Description
508GS01_I	G3508 LE PET PACKAGE 50 HZ
50H0400_I	VOLTAGE INDICATOR 400V
KMM0480_I	480 EKW W/O FAN (54C) 8:1
CONTINU_I	CONTINUOUS POWER APPLICATION
MSPETPG_I	PETRO PRODUCTION/PUMPING
MSCP30_I	LAND PRODUCTION POWER
MWCODEE_I	PRIME POWER
EXPTTAG_I	EXPORT TAG
EUDGDOI_I	EUROPEAN DIRECTIVE GENSET DOI
ESCNONE_I	NO EXTENDED SERVICE COVERAGE
EMCMETU_I	METRIC DISPLAY UNITS
NOPLUBE_I	NO PRELUBE DESIRED
CVR0050_I	CRANKCASE COVERS
CSTVL01_I	THERMOSTATIC VALVE 54 DEG C
ELSDL17_I	D ELEC START MTR LH -30 TO 20C
TRSGEN7_I	PGS TEST REPORT @0.8 PF

**AIR INLET SYSTEM**

- Air cleaner: Intermediate duty with service indicator

**CONTROL SYSTEM**

- Governor; Woodward 2301A speed control, EG3P Actuator (2301A installed in EMCP II panel)

**COOLING SYSTEM**

- Thermostats and housing, full open temperature 98 C (208 F)
- Jacket water pump, gear driven, centrifugal, non-self-priming
- Aftercooler water pump, gear driven, centrifugal, non-self-priming
- Aftercooler thermostats & housing, full open temperature 35 C (95 F)

**EXHAUST SYSTEM**

- Exhaust manifolds; water-cooled

**FLYWHEELS & FLYWHEEL HOUSINGS**

- Flywheel; SAE No. 00
- Flywheel housing; SAE No. 00
- SAE standard rotation

**FUEL SYSTEM**

- Gas pressure regulator
- Requires 241.3 - 275.8 kPa (35 - 40) psi gas
- Natural gas carburetor
- Dual rear inlet connections

- Fuel filter is required but not provided as standard: customer may provide or see optional fuel filters.
- Fuel system is sized for 31.5 to 47.2 MJ/Nm<sup>3</sup> (800 to 1200 btu/scf)

#### GENERATORS AND GENERATOR ATTACHMENTS

- Brushless PM excited SR4B generator with space heaters
- Form wound with coastal insulation protection
- Includes platinum stator RTDs and Caterpillar's Digital
- Voltage Regulator (CDVR), which includes KVAR/PF control

#### IGNITION SYSTEM

- Caterpillar Electronic ignition system (E.I.S.) (includes detonation sensitive timing)

#### INSTRUMENTATION

- EMCP II+ control panel including:
  - 24 volt DC control
  - NEMA12, IP44 dust proof enclosure
  - Lockable hinged door
  - Generator terminal box (mounted rear facing)
  - Single location customer connection
  - Panel illuminating lights
  - Auto start/stop control switch
  - Voltage adjustment potentiometer
  - True RMS AC metering, 3 phase
  - Purge cycle and staged shutdown logic
- Digital indication for:
  - RPM
  - Operating hours
  - Oil pressure
  - Coolant temperature
  - DC volts
  - L-L volts, L-N volts, phase amps, Hz
  - kW, kVA, kVAR, kWhr, %kW, PF
- Engine initiated shutdowns with discreet codes displayed for: \*
  - Low oil pressure
  - High coolant temperature
  - Overspeed
  - Emergency stop
  - Failure to start (overcrank)
  - High oil temperature \*for a complete listing check technical sales or service literature
  - Programmable protective relaying functions
  - Under and over voltage
  - Under and over frequency
  - Reverse power
  - Over current (phase and total)
  - 3 spare indicator LEDs (programmable)
  - 4 spare alarm/shutdown inputs
  - Instrument panel, RH, 10 hole
  - Oil pressure differential
  - Inlet manifold temperature
  - Inlet manifold pressure
  - Exhaust pyrometer and thermocouples (individual exhaust ports)

#### LUBE SYSTEM

- Crankcase breather; top mounted
- Oil cooler
- Oil filter; RH
- Shallow oil pan

#### MOUNTING SYSTEM

- Rails; engine-generator mounting, 330 mm (13 in), industrial type

#### POWER TAKE-OFFS

- Front housing; two-sided

#### PROTECTION SYSTEM

- Shutoff, solenoid, 24 volt, energized to run
- Detonation shutdown
- Additional safety shutdown protection (see Instrumentation)

#### STARTING SYSTEM

- Single 24 volt electric starting motor for above 20 C (68 F)
- (Jacket water heater recommended for 10 sec. starting.)

#### GENERAL

- Paint; Caterpillar yellow
- Crankshaft vibration damper and guard
- Lifting eyes

#### Notes:

"Stationary Use Only Label": Effective January 2004, the US EPA Nonroad Mobile SI rule restricts the use of SI gas engines in the United States. Caterpillar's Gas Engines are not certified for mobile applications within the US and are to be used in "stationary use only" applications. All gas engines will have this label attached regardless of the dealer placing the order.

Note: Radiator not included, ratings shown are without fan.

Torsional analysis is recommended if other than a Caterpillar generator is used.

50 HERTZ, 1500 RPM, 3 PHASE, 400 VOLT, PM EXCITED