

Caterpillar Model 3512C – 1360KW prime @ 480V 60HZ

AIR INLET SYSTEM

Air Cleaner; single element canister type with service indicator

CONTROL PANEL

EMCP4 controls including:

Emergency stop pushbutton

EMCP4.2 controller including:

24-volt DC operation

Environmental sealed front face

Text alarm/event descriptions

Generator mounted - rear facing

Controls:

Speed adjust

Auto/start/stop control

Engine cool-down timer

Engine cycle crank

Alarm acknowledge

Lamp test

True RMS AC metering, 3-phase, +/-2% accuracy

Digital indication for:

RPM

DC volts

Operating hours

Oil pressure (psi, kPa or bar)

Coolant temperature

Volts (L-L & L-N), frequency (Hz)

Amps (per phase & average)

Power Factor (per phase & average)

kW (per phase, average & percent)

kVA (per phase, average & percent)

kVAr (per phase, average & percent)

kW-hr (total)

kVAr-hr (total)

Warning/shutdown with common LED indication of shutdowns for:

-Low oil pressure

- High coolant temperature

- Overspeed

- Emergency stop

- Failure to start (overcrank)

- Low coolant temperature

- Low coolant level

Programmable protective relaying functions:

- Generator phase sequence

- Over/Under voltage (27/59)

- Over/Under Frequency (81 o/u)

- Reverse Power (kW) (32)

- Reverse Reactive Power (kVAr) (32RV)

- Overcurrent (50/51)

Communications

- Customer data link (Modbus RTU)

- Accessory module data link

- Serial annunciator module data link

- 6 programmable digital inputs

- 4 programmable relay outputs (Form A)
- 2 programmable relay outputs (Form C)
- 2 programmable digital outputs

COOLING SYSTEM

EPA Stationary Emergency (EPA Tier 2 emissions levels) Certified Standard PGS provides:

- ATAAC - **All 3512C (Radiator Removed)**

See TMI for heat rejection, pump performance, air flow, and ambient capability information.

Air return temp from ATAAC:

- 50 C (122 F) at 30 C (86 F) ambient temperature.

EXHAUST SYSTEM

Dry exhaust manifold.

Flanged faced outlet(s).

FUEL SYSTEM

Secondary fuel filters

Fuel cooler; not included with packages without radiator

Flexible fuel lines - shipped loose

Fuel priming pump

GENERATORS AND GENERATOR ATTACHMENTS

3 Phase Brushless, Salient Pole

Permanent Magnet Excited

12 lead (up to 1000 kVa @ 50 Hz and 1250 ekW @ 60 Hz)

6 lead (> 1000 kVa @ 50 Hz and > 1250 ekW @ 60 Hz)

Permanent Magnet generators include Caterpillar's digital voltage regulator (CDVR). CDVR includes KVAR/PF modes, RFI suppression, min/max exciter limiter and exciter diode monitor. For high voltage applications, the voltage regulator is shipped loose.

An option is offered for installation in the EMCP.

Shipped loose or installed in wall mount EMCP if ordered.

Class H insulation, Class F temperature rise at 40C ambient (105C prime/130C standby)(LV)(MV)

Class F insulation, Class F temperature rise at 40C ambient (105C prime/130C standby)(HV)

Reactive droop

Bus bar connections, right hand mounted, bottom entry

(60 Hz models: NEMA standard hole pattern)

(50 Hz models: IEC standard hole pattern)

Winding temperature detectors

Anti-condensation space heaters

(690 Frames: 240 VAC, 900 W).

(820 Frames: 240 VAC, 1200 W).

(HV Generators 240 VAC, 2000 W).

GOVERNING SYSTEM

ADEM A3

LITERATURE

English

LUBE SYSTEM

Lubricating oil

Gear type lube oil pump

Integral lube oil cooler

Oil filter, filler and dipstick

Oil drain lines and valve

Fumes disposal

MOUNTING SYSTEM

Rails - engine/generator/radiator mounting.
Anti-vibration mounts (shipped loose).
Rubber anti-vibration mounts (shipped loose).

STARTING/CHARGING SYSTEM

24-volt electric starting motor
Battery and battery rack w/cables.
Battery disconnect switch

GENERAL

PAINT

Caterpillar Yellow with high gloss black rails & radiator
RH Service
Flywheel and Flywheel housing-SAE No. 00
SAE Standard Rotation
60 HZ, 1800 RPM, EPA Stationary Emergency (EPA Tier 2 emissions levels)

CERTIFIED FOR STATIONARY USE ONLY DURING DEFINED EMERGENCY CONDITIONS.

Outside EPA-regulated territories and in Guam, American Samoa or the Commonwealth of the Northern Mariana Islands, these restrictions do not apply.

480/277 VOLTS, 3 PHASE; PRIME