



GENERATOR SET SPECIFICATIONS	
Minimum Rating	1320 kVA
Maximum Rating	1875 kVA
Emissions/Fuel Strategy	Low Fuel, Low Emissions
Voltage	380 to 415 Volts
Frequency	50 Hz
Speed	1500 rpm
Duty Cycle	Standby, Mission Critical, Prime
ENGINE SPECIFICATIONS	
Engine Model	3512B TA, V-12, 4-Stroke Water-Cooled Diesel
Bore	6.69 in
Stroke	7.48 in
Stroke - HD	8.46 in
Displacement	3161.03 in
Displacement - HD	3573.55 in³
Compression Ratio	14.0:1 Std 15.5:1 HD
Aspiration	TA
Fuel System	Electronic Unit Injection
Governor Type	Adem™3
GENERATOR SET DIMENSIONS	
Length - Minimum	206.6 in

Length - Maximum	215.3 in	
Width - Minimum	77.8 in	
Width - Maximum	90 in	
Height - Maximum	93.2 in	
Dry Weight - Genset (minimum)	25010 lb	
Dry Weight - Genset (maximum)	26840 lb	

3512B (50 HZ) STANDARD EQUIPMENT

AIR INLET SYSTEM

Aingle element canister type air cleaner with service indicator

AIR INLET

Air Cleaner

COOLING

Package mounted radiator (except C175)

CONTROL PANEL

Emergency stop button

Programmable protective relaying functions:

Over / under voltage (27 / 59)

kVAr (per phase, average & percent)

kVA (per phase, average & percent)

Engine cool-down timer

Generator mounted - rear facing

Overcurrent (50 / 51)

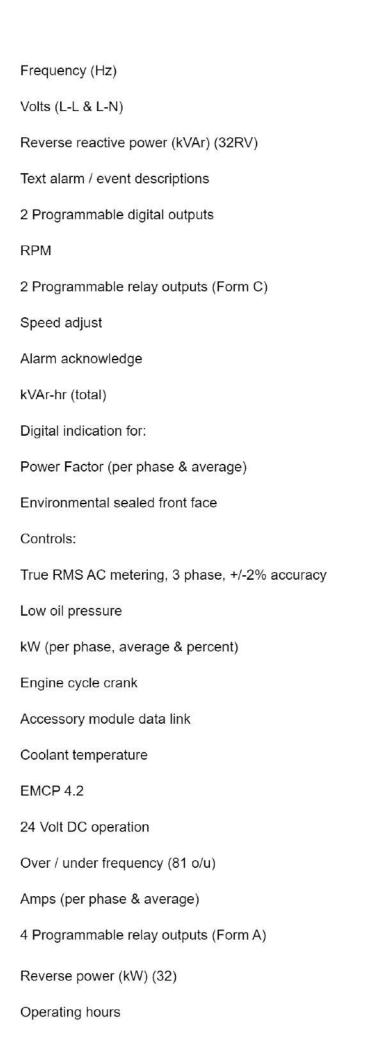
Warning / shutdown with common LED indication of shutdowns for:

Low coolant level

DC volts

Generator phase sequence

Overspeed



Communications		
Oil pressure (psi, kPa or bar)		
Serial annunciator module data link		
kW-hr (total)		
6 Programmable digital inputs		
High coolant temperature		
Failure to start (overcrank)		
Low coolant temperature		
Lamp test		
Emergency stop		
Auto / start / stop control		
Customer data link (Modbus RTU)		
EXHAUST		
Exhaust flange outlet		
FUEL		
Secondary fuel filter		
Primary fuel filter with integral water separator		
Fuel priming pump		
CONTROL SYSTEM		
Engine cool-down timer.		
DC volts		
True RMS AC metering, 3-phase, +/-2% accuracy		
High coolant temperature		
Coolant temperature		
Auto/start/stop control		
Failure to start (overcrank)		
Communications		
Oil pressure		

	Emergency stop
	EMCP4.2B
	Overspeed
	frequency (Hz)
	Volts (L-L & L-N)
	Engine cycle crank
	Warnings / Shutdown indicators
	Speed adjust
	Lamp test
	24-volt DC operation
	RPM
	4 programmable digital inputs
	Low coolant level
	Operating hours
	Alarm acknowledge
	Emergency stop pushbutton
	Low oil pressure
	Amps (per phase & average)
	4 programmable digital outputs
	Digital indication for:
GE	ENERATOR
	IP23 Protection
	Matched to the performance and output characteristics of Cat engines
PC	OWER TERMINATION
	Bus Bar

GENERATOR SYSTEM

Class H temperature rise at 40C ambient

	3 phase brushless, salient pole
	6 lead
	Winding temperature detectors
	NEMA Class H insulation
	Random wound
	Internal Excitation
	3-phase voltage sensing
	Bus bar connections
	min/max exciter
	Caterpillar's Digital Voltage Regulator (CDVR)
	RFI suppression
L	ITERATURE
	English
С	OOLING SYSTEM
	Caterpillar extended life coolant. (Not included with packages without radiator, installed SF44CTS, shipped loose radiators or heat exchangers)
	JWAC
	Coolant level sensors. (Not included with packages without radiator)
	Coolant drain line with valve
	Radiator fan and fan drive
	Fan and belt guards
Ε	XHAUST SYSTEM
	Dry exhaust manifold
	Flanged faced outlet(s)
F	UEL SYSTEM
	Fuel priming pump
	Secondary fuel filters
	Fuel cooler; not included with packages without radiator

Flexible fuel lines - shipped loose

GENERATORS AND ATTACHMENTS

Note: 1800 frames are form wound, permanent magnet, with winding temp detectors

3 Phase voltage sensing

RFI suppression

Class H temperature rise at 40C ambient (125C prime / 150C standby)

Min / max exciter limiter

Exciter diode monitor

Busbar connections, top center mounted, top cable entry

3 Phase brushless, salient pole

50 Hz models: IEC standard hole pattern

Caterpillar's Digital Voltage Regulator (CDVR) includes:

Random wound

Generator set packages include: Regulator (CDVR)

Reactive droop capability

6 Leads

KVAR / PF modes

NEMA Class H insulation

Winding temperature detectors

Internal Excitation

LV:

GOVERNING SYSTEM

Woodward 2301A isochronous governor

LUBE SYSTEM

Lubricating oil

Gear type lube oil pump

Integral lube oil cooler

Oil filter, filler and dipstick

Fumes disposal

Oil drain lines and valve

MOUNTING SYSTEM

Rails - engine / generator / radiator mounting

Rubber anti-vibration mounts (shipped loose)

STARTING / CHARGING SYSTEM

Battery disconnect switch

Battery and battery rack w/cables

24-volt electric starting motor

GENERAL

SAE standard rotation

Flywheel and Flywheel housing-SAE No. 00

RH Service

Paint - Caterpillar yellow with high gloss black rails & radiator

3512B (50 HZ) OPTIONAL EQUIPMENT

AIR INLET SYSTEM

Air Inlet protection

Remote air inlet adaptors

Dual element air cleaners

EXHAUST

Exhaust mufflers

GENERATOR

Anti-condensation heater

Internal excitation (IE)

Permanent magnet excitation (PMG)

Oversize and premium generators

CIRCUIT BREAKERS

Cable entry options

2000, 2500, 3200 and 4000 Amp, 4 pole, IEC rated circuit breakers Busbar connections Center posts busbars Controls packaging - Enclosures 2000, 2500, 3200 and 4000 Amp, 3 pole, IEC rated circuit breakers Optional busbar power connections EMAX breakers connections EMAX circuit breakers Breaker harnesses POWER TERMINATION Circuit breakers, UL listed Circuit breakers, IEC compliant **CONTROL PANELS** Annunciator modules Customer connection mounting locations Remote speed adjust Local PC monitoring Generator temperature monitoring Auxiliary boxes Governors Customer interface options EMCP 4.3, EMCP 4.4 Ground (Automatically selected) Mounting group - External box clips Vandle proof panel door MOUNTING Rubber anti-vibration mounts

IBC isolators

Spring-type vibration isolator STARTING/CHARGING Oversize batteries Air starting motor with control and silencer Jacket water heater Heavy-duty starting system Charging alternator Battery chargers COOLING SYSTEM Water level switch gauges Optional radiator arrangements Heat exchangers **EUROPEAN CERTIFICATIONS** European Union certification EU declaration of conformity European directive genset, Dol (Declaration of Incorporation) Eurasian conformity (EAC) mark **EXHAUST SYSTEM** Mufflers Muffler mounting kits Through-wall installation kit Flexible fittings **FUEL SYSTEM** Primary fuel filter GENERATORS AND ATTACHMENTS Generator conversion 1500 RPM, 380/400/415volts @ 50 Hz, 3 phase, random wound, permanent magnet, No. of leads = 6, pitch= 0.6667

1סטט ארואו, ססטישטטיש וסטטוג ש סט חב, ס phase, וסוווו wound, permanent magnet, ואס. סו leads = ס, pitch= 0.6667

1500 RPM, 380/400/415volts @ 50 Hz, 3 phase, random wound, internal excitation, No. of leads = 6, pitch= 0.6667

Space heater

INSTRUMENTATION

Pyrometer and thermocouples

LUBE SYSTEM

Oil level Reg-1 shallow pan

Electric prelube pumps

Manual prelube sump pumps

MOUNTING SYSTEM

IBC vibration isolators

Spring-type vibration isolator

PROTECTION SYSTEM

Explosion relief valve

SPECIAL TESTS / REPORTS

PGS test report @ 0.80 power factor

Neutral ground-LV

IBC seismic certifications

PGS test report @ 1.0 power factor

Neutral grounding connection

STARTING / CHARGING SYSTEM

Oversize battery set

Jacket water heaters

10 Amp battery chargers

Ether starting aid

24 Volt dual electric starting motor

20 Amp battery charger

GENERAL

Engine barring group