

PRODUCT SPECIFICATIONS FOR 3412C (50 HZ)



Maximum Rating	900 kVA
Minimum Rating	680 kVA
Emissions/Fuel Strategy	Low Fuel Consumption
Voltage	380 to 415 Volts
Frequency	50 Hz
Speed	1500 rpm
Duty Cycle	Standby, Prime
Engine Model	3412C TA, V-12, 4-Stroke Water-Cooled Diesel
Bore	5.4 in
Stroke	6 in
Displacement	1648.86 in ³
Compression Ratio	13:01
Aspiration	TA
Fuel System	Pump and Lines
Governor Type	ADEM™ A5
Length - Maximum	162.4 in

Width - Minimum	75 in
Width - Maximum	78.3 in
Height - Maximum	75 in
Dry Weight - Genset (minimum)	12039 lb
Dry Weight - Genset (maximum)	13030 lb

3412C (50 HZ) STANDARD EQUIPMENT

AIR INLET SYSTEM

Air cleaner, single element canister type with service indicator

CONTROL PANEL

EMCP 4.2B

Customer data link (Modbus RTU)

2 Programmable relay outputs (Form C)

Features include:

Voltage adjust

Failure to start (overcrank)

Volts (L-L & L-N)

Reverse power (kW) (32)

Accessory module data link

Over/under voltage (27 / 59)

Speed adjust

Low coolant temperature

Oil pressure (psi, kPa or bar)

Environmental sealed front face

Generator temperature monitoring module

DC volts

Serial annunciator module data link

Reverse reactive power (kVAr) (32RV)

Amps (per phase & average)

High coolant temperature

24 Volt DC operation

Communications

Power factor (per phase & average)

Compatible with the following optional modules:

Low coolant level
Text alarm/event descriptions
Digital I/O module
6 programmable digital inputs
Low oil pressure
Remote Serial annunciator
Engine cycle crank
Local annunciator
Digital indication for:
Over/under frequency (81 o/u)
Generator phase sequence
Emergency stop
kVAr (per phase, average & percent)
Run/auto/ stop/control
Operating hours
kVA (per phase, average & percent)
Warning/shutdown with common LED indication of shutdowns for:
Emergency stop pushbutton
Frequency (Hz)
coolant temperature
Overspeed
4 programmable relay outputs (Form A)
kW-hr (total)
2 Programmable digital outputs
Remote CAN annunciator
Overcurrent (50 / 51)
kW (per phase, average & percent)
RPM
Programmable protective relaying functions:

COOLING SYSTEM

Radiator with guard (Sized for 50 degrees C)
Coolant level shutdown
Coolant drain line with valve, piped to edge of base
Fan and belt guards
Caterpillar extended life coolant

EXHAUST SYSTEM

Stainless steel exhaust flex with ANSI style outlet flange, gasket, bolts and mating weld flange, shipped loose

FUEL SYSTEM

Primary and Secondary fuel filters
Fuel priming pump
Flexible fuel lines terminated on base

Water separator

GENERATOR AND ATTACHMENTS

2:1 Volts/Hz

Busbar termination

3-phase sensing

Class H insulation

Reactive droop

VR6 voltage regulator

SR4B self excited

12 Leads

Class F temperature rise

GOVERNING SYSTEM

Cat electronic governor

LUBE SYSTEM

Oil drain line with valve, piped to edge of base

Lubricating oil

Oil filter

Fumes disposal, piped to front of radiator

MOUNTING SYSTEM

Base, formed steel with linear vibration isolators between base and engine-generator

STARTING / CHARGING SYSTEM

45 amp Charging alternator

Battery with rack, cables

Fuel shutoff solenoid

24 volt starting motor

3412C (50 HZ) OPTIONAL EQUIPMENT

AIR INLET SYSTEM

Heavy duty air cleaners

Dual element air cleaners

Open element air cleaners

CIRCUIT BREAKERS

1600 Amp, 3 pole, Non-UL, 100% rated, 24 volt DC shunt trip

1250, 1600 Amp, 3 pole, IEC 100% rated, 24 volt DC shunt trip

CONTROL PANEL

CONTROL PANEL

Generator temperature monitoring package
EMCP 4.4
First local annunciators
Vandal proof panel door
Remote custom annunciator
EMCP 4.3
Local discrete I/O package
Common alarm/shutdown relay
Ground fault relay
Generator running VFC

COOLING SYSTEM

Radiator duct flange
Jacket water heaters

EUROPEAN CERTIFICATIONS

Eurasian Conformity (EAC) mark

EXHAUST SYSTEM

Through wall installation kit
Mufflers
Manifold and turbocharger guards
Elbow kit

GENERATOR AND ATTACHMENTS

Permanent magnet excitation (PMG)
Space heater
Digital voltage regulator
Oversize and premium generators

LUBE SYSTEM

Manual sump pump

MOUNTING SYSTEM

Fuel tank base (1200 ltr)

SPECIAL TESTS / REPORTS

PGS Test report @ 0.8 power factor
PGS Test report @ 1.0 power factor

STARTING / CHARGING

Oversize batteries
Battery chargers
Battery disconnect switch
Heavy duty starting system

GOVERNING SYSTEM

Electronic load share