

Product Specifications For 3412C (60 Hz)



Generator Set Specifications

Maximum Rating	800 ekW
Minimum Rating	635 ekW
Emissions/Fuel Strategy	Low Fuel Consumption
Voltage	220 to 480 Volts
Frequency	60 Hz
Speed	1800 rpm
Duty Cycle	Standby, Prime

Engine Specifications

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	13:00:01
Aspiration	TA
Fuel System	Pump and Lines
Governor Type	ADEM™ A5

Generator Set Dimensions

Length - Maximum	162.4 in
Width - Maximum	78.3 in

Height - Maximum

75 in

Dry Weight - Genset (minimum)

5761 lb

Dry Weight - Genset (maximum)

13275 lb

3412C (60 Hz) Standard Equipment

Air Inlet System

Air cleaner, single element canister type
Single element canister type

Control Panel

High coolant temperature
Customer data link (Modbus RTU)
Low coolant temperature
Low coolant level
Communications:
Run/auto/ stop/control
Engine cycle crank
Generator temperature monitoring module
Power factor (per phase & average)
Remote CAN annunciator
Serial annunciator module data link
DC volts
Frequency (Hz)
Operating hours.
Emergency stop pushbutton
Digital I/O module
Local annunciator
Low oil pressure
Oil pressure (psi, kPa or bar)
Emergency stop
Warning shutdowns:
Volts (L-L & L-N)
Remote Serial annunciator
Speed adjust
Amps (per phase & average)
Voltage adjust
EMCP 4.2B
Overspeed
coolant temperature
Digital Indicator for:
RPM
Accessory module data link
Failure to start (overcrank)

Controls:

Compatible with the following optional modules:

Cooling System

Caterpillar extended life coolant
Radiator with guard (sized for 50 degrees C)
Fan and belt guards
Coolant drain line with valve

Exhaust System

Stainless steel exhaust flex with ANSI style outlet flange

Fuel System

Primary and Secondary fuel filters
Fuel priming pump
Water separator

Generator And Attachments

3 Phase sensing
SR4B self excited
Class F temperature rise
VR6B voltage regulator
Busbar termination
12 Leads
Class H insulation
2:1 Volts/Hz
Reactive droop

Governing System

Cat electronic governor

Lube System

Oil drain line with valve
Lubricating oil
Oil filter

Mounting System

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

Starting / Charging System

Battery with rack, cables
45 Amp Charging alternator
Fuel shutoff solenoid
24 Volt starting motor

General

Paint - Caterpillar yellow except rails and radiators gloss black

3412C (60 Hz) Optional Equipment

Air Inlet System

Air cleaner - Dual element
Air cleaner - Heavy element
Air cleaner - single element

Certificates

EU Certification

Circuit Breakers

4 Pole Circuit breakers with shunt trip
3 Pole Circuit breakers with shunt trip
Power terminal strip

Control Panel

EMCP 4.3, EMCP 4.4
Temperature monitoring package
Vandal proof panel door
Generator running VFC
Earth leakage Ground fault relay
Common alarm/shutdown relay

Cooling System

Jacket water heater
Radiator duct flange
Radiator removal

Exhaust System

Muffler 10 dBA attenuation
Manifold and turbocharger guards
Muffler 35 dBA attenuation
Elbow mounting kit
Through wall installation kit

Fuel System

Manual fuel transfer pump
Automatic fuel transfer system

Generator And Attachments

Internal excitation (IE)
Anti-condensation heater
Permanent magnet excitation (PMG)
Oversize and premium generators

Governing System

Electronic load share

Lube System

Manual sump pump

Mounting System

Fuel tank base (1200 Ltr)

Special Tests / Reports

PGS Test report @ 1.0 power factor

PGS Test report @ 0.8 power factor

Factory witness test

Starting / Charging System

Oversize battery set

Battery chargers

Heavy duty starting system

Battery disconnect switch

Battery removal

Enclosures

DC lighting package

Weather protective enclosure (WP)

Sound attenuated enclosure (SA)