



# PRODUCT SPECIFICATIONS FOR C32 (50 HZ)



TST CO.

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## GENERATOR SET SPECIFICATIONS

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<b>Minimum Rating</b>	910 kVA
<b>Maximum Rating</b>	1500 kVA
<b>Emissions/Fuel Strategy</b>	Low Fuel, Low Emissions
<b>Voltage</b>	400 to 3300 Volts
<b>Frequency</b>	50 Hz
<b>Speed</b>	1500 rpm
<b>Duty Cycle</b>	Standby, Mission Critical, Prime, Continuous

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## ENGINE SPECIFICATIONS

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<b>Engine Model</b>	C32 TA, V-12, 4-Stroke Water-Cooled Diesel
<b>Bore</b>	5.71 in
<b>Stroke</b>	6.38 in
<b>Displacement</b>	1958.86 in <sup>3</sup>
<b>Compression Ratio</b>	15.0:1
<b>Aspiration</b>	TA
<b>Fuel System</b>	MEUI
<b>Governor Type</b>	Adem™ A4

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## GENERATOR SET DIMENSIONS

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<b>Length - Minimum</b>	164 in
<b>Length - Maximum</b>	176.6 in
<b>Width - Minimum</b>	66.3 in

<b>Width - Maximum</b>	87.8 in
<b>Height - Minimum</b>	85.1 in
<b>Height - Maximum</b>	86.4 in
<b>Dry Weight - Genset (minimum)</b>	14700 lb
<b>Dry Weight - Genset (maximum)</b>	17855 lb

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## C32 (50 HZ) STANDARD EQUIPMENT

### AIR INLET SYSTEM

Single element canister type with service indicator

### CONTROL PANEL

EMCP 4.2B

Warning shutdowns

Control features

Communications

Programmable protective relaying functions

Digital indicators

### COOLING SYSTEM

Radiator fan and fan drive

Coolant drain line with valve

ATAAC

Caterpillar Extended Life Coolant

Fan and belt guards

Low coolant level sensor

### EXHAUST

Exhaust manifold - Dry

203 mm (8 in) ID round flanged outlet

### FUEL SYSTEM

Primary fuel filter with water separator

Secondary fuel filters

Fuel cooler

Fuel priming pump

#### GENERATORS AND ATTACHMENTS

6 Lead

Salient pole

NEMA Class H insulation

Internal Excitation

Permanent magnet

Reactive droop

3 Phase brushless

Winding temperature detectors

Class H temperature rise at 40C ambient

Busbar connections, top center mounted, top cable entry

IEC standard hole pattern

Integrated voltage regulator (IVR)

#### GOVERNING SYSTEM

ADEM(tm) A4

#### MOUNTING SYSTEM

Rubber anti-vibration mounts

Rails - engine/generator/radiator mounting

#### LUBE SYSTEM

Gear type lube oil pump

Oil filter, filler and dipstick

Integral lube oil cooler

Fumes disposal

Oil drain lines and valve

Lubricating oil

## POWER TERMINATION

Busbar

## STARTING / CHARGING SYSTEM

Battery disconnect switch

Battery, rack and cables

24 Volt electric starting motor

45 Amp charging alternator

## GENERAL

Caterpillar Yellow with high gloss black rails & radiator

Flywheel and flywheel housing-SAE

SAE Standard Rotation

RH Service

# C32 (50 HZ) OPTIONAL EQUIPMENT

## AIR INLET SYSTEM

Heavy duty air cleaner

Standard air cleaner

Dual element air cleaner

## CIRCUIT BREAKERS

Circuit breaker wiring groups

Enclosures - Control packaging

Shrouds

Power connection covers

1600, 2000, 2500 and 3200 Amp, 3 Pole, IEC-Rated Circuit Breakers

Center posts busbars

Cable supports

400, 800, 1200, 1600, 2000, 2500 and 3000 Amp, 3 Pole, UL-100% Rated Circuit Breakers

800, 1600, 2000, 2500 and 3200 Amp, 4 Pole, IEC Rated Circuit Breakers

## CONTROL PANELS

EMCP 4.3, EMCP 4.4

## COOLING SYSTEM

High Ambient radiator

Extended life coolant

Radiator duct flange

Standard radiator

Certified radiator

## ENCLOSURES

Color options

Cold weather bundle

DC lighting package

Sound attenuated enclosure

Premium sound attenuated enclosure

Enclosure fuel tank options

Enclosure louvres - fixed and motorized

AC panel, outlets and lights

Panel bracket

## EXHAUST SYSTEM

Flexible fittings

Exhaust through wall kit

Elbow mounting kit

Mufflers

Flange and exhaust expanders

Guard and Shield System

Flanges

All C32 engines have 203 mm (8 in) exhaust outlets

## GENERATOR AND ATTACHMENTS

Medium voltage generators

Low voltage generators

## LUBE SYSTEM

Prelube manual sump pump

Oil pan

Oil level regulator

## MOUNTING SYSTEM

IBC vibration isolators

Spring type vibration isolator

Mounting base types

Standard package isolators

## POWER TERMINATION

Circuit breakers, UL listed

Circuit breakers, IEC compliant

## POWER CONNECTIONS

Low voltage connection cables

Neutral grounding connection

Center post busbar

## STARTING / CHARGING SYSTEM

Electric starting motor - Standard / Heavy duty

Jacket water heater

35 Amp battery charger

10 Amp battery charger

10 Amp enclosure battery charger

Standard 24 volt Open package battery set - Dry

20 Amp battery charger

Space heater

## SPECIAL TESTS / REPORTS

IBC seismic certifications

Custom genset TVA report

PGS test report @ 1.0 power factor

Generator test report

Standard engine test

Standard genset Torsional Vibration Analysis (TVA) report

CSA test and certification

OSHPD seismic certifications

PGS test report @ 0.8 power factor

#### GENERAL

Special paint

US aid emblem