

# Product Specifications For C32 (50 Hz)



## Generator Set Specifications

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

## Engine Specifications

|                   |  |
|-------------------|--|
| Engine Model      | C32 TA, V-12, 4-Stroke Water-Cooled Diesel |
| Bore              | 145 mm                                     |
| Stroke            | 162 mm                                     |
| Displacement      | 32.1 l                                     |
| Compression Ratio | 15.0:1                                     |
| Aspiration        | TA   |
| Fuel System       | MEUI                                       |
| Governor Type     | Adem™ A4                                   |

## Generator Set Dimensions

|                  |         |
|------------------|---------|
| Length - Minimum | 4165 mm |
|------------------|---------|

|                                      |         |
|--------------------------------------|---------|
| <b>Length - Maximum</b>              | 4485 mm |
| <b>Width - Minimum</b>               | 1684 mm |
| <b>Width - Maximum</b>               | 2228 mm |
| <b>Height - Minimum</b>              | 2162 mm |
| <b>Height - Maximum</b>              | 2194 mm |
| <b>Dry Weight - Genset (minimum)</b> | 6668 kg |
| <b>Dry Weight - Genset (maximum)</b> | 8099 kg |

## **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 (IE)  
Permanent magnet excitation (PMG)  
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 cleaners

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 the 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 isolators  
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 busbars

## **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 generator 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  
OSHDP seismic Certifications  
PGS Test report @ 0.8 power factor

## **General**

Special paint  
US aid emblem