

PRODUCT SPECIFICATIONS FOR C27 (60 HZ)

GENERATOR SET SPECIFICATIONS

Minimum Rating	635 ekW
Maximum Rating	800 ekW
Emissions/Fuel Strategy	Low Fuel, Tier 2 Nonroad Equivalent
Voltage	208 to 600 Volts
Frequency	60 Hz
Speed	1800 rpm
Duty Cycle	Standby, Prime

ENGINE SPECIFICATIONS

Engine Model	C27 ATAAC, V-12, 4-Stroke, Water-Cooled Diesel
Bore	5.4 in
Stroke	6 in
Displacement	1649.47 in ³
Compression Ratio	16.1:1
Aspiration	TA
Fuel System	MEUI
Governor Type	Adem™ A4

GENERATOR SET DIMENSIONS

Length - Maximum	184 in
Width - Maximum	67.8 in
Height - Maximum	85.1 in

C27 (60 HZ) STANDARD EQUIPMENT

AIR INLET

Air Cleaner; single element canister type with service indicator

CONTROL PANEL

EMCP 4.2B

Digital Indicators

Warning/shutdown Indicators

Programmable Protective Relaying Functions

Communications

Features:

COOLING SYSTEM

Coolant level sensor

Coolant drain line with valve terminated on edge of base

ATAAC

Caterpillar Extended Life Coolant

Radiator sized to 50 degrees C

Fan and belt guards drive

EXHAUST SYSTEM

203mm (8in) ID round flanged outlet

Exhaust Manifold - dry

FUEL SYSTEM

Primary fuel filter with integral water separator

Electric fuel priming pump

Fuel cooler

Flexible fuel lines - installed

Secondary fuel filter

GENERATORS AND ATTACHMENTS

Integrated Voltage Regulator (IVR) includes

For EPA Stationary Emergency (EPA Tier 2 Emissions) configurations:

Bus bar connections:

SR5 Permanent Magnet (PM)

For Low BSFC configurations:

LUBE SYSTEM

Standard volume oil pan - 68 Ltr

Lubricating oil

Oil drain lines and valve

Gear type lube oil pump

Oil filter, filler and dipstick

Fumes disposal - open crankcase ventilation routed to front of package

Integral lube oil cooler

MOUNTING SYSTEM

Rubber anti-vibration mounts - shipped loose

Rails - engine/generator/radiator mounting

STARTING AND CHARGING SYSTEM

24-volt electric starting motor

Battery, rack and cables - shipped-loose

Battery disconnect switch

Charging Alternator 45A

GENERAL

Paint: Caterpillar Yellow with high gloss black rails & radiator

SAE Standard Rotation

Right hand service

Flywheel and flywheel housing-SAE No. 0 and SAE No. 18

C27 (60 HZ) OPTIONAL EQUIPMENT

AIR INLET SYSTEM

Standard air cleaners

Heavy duty air cleaners

Dual element air cleaners

STARTING /CHARGING SYSTEM

20 Amp enclosure battery chargers

10 Amp battery chargers

24 Volt battery sets - Dry

Air starting motor with control and silencer

Space heater

24 Volt electric start motors - Heavy duty

Jacket water heaters

CIRCUIT BREAKERS

400, 800, 1200, 1600, 2000, 2500, 3000 Amp, 3 pole, UL-100% rated circuit breakers

2000 Amp, 3 pole, IEC rated circuit breakers

800 Amp, 4 pole, IEC rated circuit breakers

CONTROL PANELS

Cable shroud - Bottom mounted

Cable shroud - Top mounted

EMCP 4.3, EMCP4.4

Side extension box

Remote annunciator modules

Auxiliary box options

Remote mounted panel harness mounting kit

Remote mounted circuit breaker terminals

Modbus monitor local packages

Remote DIO module

Cat connect telematics

Load share module

Vandal proof panel cover

Installed DIO module

Remote mounting harness

Annunciator modules

COOLING SYSTEM

Radiator duct flange

High ambient radiator

Extended life coolant

Certified radiator

Standard radiator

ENCLOSURES

Enclosure louvers

Enclosure with lifting base or fuel tank

Panel bracket

AC distribution panel, lights and outlet

Enclosure lighting

Enclosure colors

Special sound attenuated enclosure

Enclosure fuel tank options

Cold weather bundle

EXHAUST SYSTEM

Mufflers

Elbows

Flanges

Exhaust through the wall kit

Flexible fittings

Guard and shield system

GENERATOR AND ATTACHMENTS

60 Hz standard generators

60 Hz premium generators

LUBE SYSTEM

Prelube pumps

Oil level regulator

MOUNTING SYSTEM

Mounting base type

IBC vibration isolators

Puck style low efficiency isolators

Spring type vibration isolators

POWER CONNECTIONS

Center post busbar

Cable entry - Right / Left / Rear

Neutral grounding connection

Power connections - Right / Left / Rear

SPECIAL TESTS / REPORTS

Torsional vibration analysis report

Generator test report

IBC Seismic certifications

OSHPD Seismic certifications

PGS test report @ 1.0 power factor

PGS test report @ 0.8 power factor

Special CSA test certification

Standard engine test

GENERAL

Miscellaneous inspection

US aid emblem

Special paint

SGS Inspection

