

PRODUCT SPECIFICATIONS FOR C27 (60 HZ)



GENERATOR SET SPECIFICATIONS

Maximum Rating	800 ekW
Minimum Rating	635 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	137.2 mm
Stroke	152.4 mm
Displacement	27.03 l
Compression Ratio	16.1:1
Aspiration	TA
Fuel System	MEUI
Governor Type	Adem™ A4

GENERATOR SET DIMENSIONS

Length - Maximum	4674 mm
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Width - Maximum

1723 mm

Height - Maximum

2162 mm

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 include:

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

203 mm (8 in) 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 filters

GENERATORS AND ATTACHMENTS

Integrated voltage regulator (IVR) includes

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

Busbar connections:

SR5 Permanent magnet excitation (PMG) (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 servicing
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 set - 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 module
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 busbars
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
OSHDPD 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