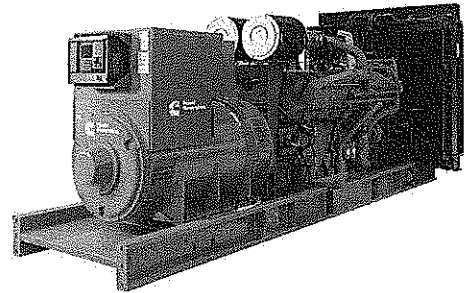


Specification sheet



Diesel generator set KTA50 series engine



1000kVA - 1675kVA 50 Hz
1120kW - 1545kW 60 Hz

Description

This Cummins® Power Generation commercial generator set is a fully integrated power generation system, providing optimum performance, reliability, and versatility for stationary standby, prime power, and continuous duty applications.

Features

Cummins® heavy-duty engine - Rugged 4-cycle industrial diesel delivers reliable power, low emissions and fast response to load changes.

Permanent magnet generator (PMG) - Offers enhanced motor starting and fault clearing short circuit capability.

Alternator - Several alternator sizes offer selectable motor starting capability with low reactance 2/3 pitch windings; low waveform distortion with non-linear loads, fault clearing short-circuits capability, and class F or H insulation.

Control system - Standard PowerCommand® electronic control provides total system integration including remote start/stop, precise frequency and voltage regulation, alarm and status message display, AmpSentry protection, output metering, auto-shutdown.

Cooling system - Standard integral set-mounted radiator system, designed and tested for rated ambient temperatures, simplifies facility design requirements for rejected heat.

Enclosures - Optional weather-protective and sound-attenuated enclosures are available.

Warranty and service - Backed by a comprehensive warranty and worldwide distributor network.

Model	Standby rating		Prime rating		Emissions compliance TA Luft - EU Stage	Data sheets	
	50 Hz kVA (kW)	60 Hz kW (kVA)	50 Hz kVA (kW)	60 Hz kW (kVA)		50 Hz	60 Hz
C1400 D5	1400 (1120)		1250 (1000)			DS44-CPGK	
* C1675 D5	1675 (1340)		1400 (1120)			DS46-CPGK	
C1675 D5A	1675 (1340)		1500 (1200)			DS47-CPGK	
C1250 D6		1270 (1588)		1120 (1400)		DS84-CPGK	
C1500 D6		1545 (1931)		1286 (1608)		DS85-CPGK	

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Generator set specifications

Governor regulation class	ISO 8528 G2
Voltage regulation, no load to full load	± 1%
Random voltage variation	± 1%
Frequency regulation	Isochronous
Random frequency variation	± 0.25%
EMC compatibility	BS EN 61000-6-4 / BS EN 61000-6-2

Engine specifications

Désign	4 cycle, V-black, turbo charged and after-cooled
Bore	158.8 mm (6.25 in)
Stroke	158.8 mm (6.25 in)
Displacement	50 L (3067 in ³)
Cylinder block engine	Sixteen-cylinder vee formation, direct injection, four-cycle diesel
Battery capacity	1800 amps at ambient temperature 32°F (0°C)
Battery charging alternator	55 amps
Starting voltage	24- volt, negative ground
Fuel system	Direct injection
Fuel filter	Dual spin on paper element fuel filters with standard water separator
Air cleaner type	Dry replaceable element
Lube oil filter type(s)	Spin-on paper element full flow and bypass lube oil filters
Standard cooling system	104°F (40°C) ambient radiator

Alternator specifications

Design	Brushless, 4 pole, drip proof revolving field
Stator	2/3 pitch
Rotor	Direct coupled by flexible disc
Insulation system	Class H
Standard temperature rise	
Exciter type	PMG (Permanent magnet generator)
Phase rotation	A (U), B (V), C (W)
Alternator cooling	Direct drive centrifugal blower fan
AC waveform total harmonic distortion	No load <1.5%. Non distorting balanced linear load <5%
Telephone influence factor (TIF)	< 50% per NEMA MG1-22.43
Telephone harmonic factor (THF)	No load <1.5%. Non distorting balanced linear load <5%

Available voltages

50 Hz line - neutral / line - line		60 Hz line - neutral / line - line	
• 220/380*	• 1905/3300	• 219/380	• 2400/4160
• 230/400	• 3640/6300	• 254/440	• 7200/12470
• 240/415	• 3810/6600	• 277/480	• 7620/13200
• 254/440	• 6350/11000	• 347/600	• 7970/13800

*Derate may be applicable at this voltage. Please consult the factory for details.

Generator set options

Engine

- Heavy duty air filter
- Water jacket heater 220/240 v

Cooling

- Antifreeze 50/50 (Ethylene glycol)

Enclosure

- High-cube 40 ft container

Alternator

- Alternator heater
- High humidity isolation
- Exciter voltage regulator (PMG)

Control panel

- 3 pole main circuit breaker
- 4 pole main circuit breaker

Warranty

- 5 years for standby application
- 2 years for prime application

Silencer

- 9 dB attenuation critical silencer
- 25 dB residential - delivered loose

*Note: Some options may not be available on all models - consult factory for availability.