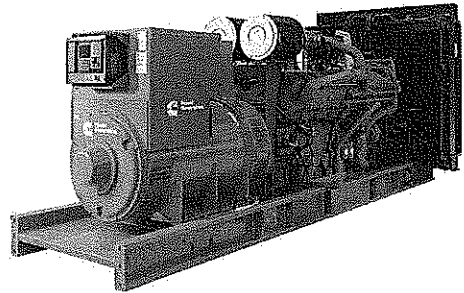


# Diesel generator set KTA50 series engine

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	Data sheets	
	50 Hz kVA (kW)	60 Hz kW (kVA)	50 Hz kVA (kW)	60 Hz kW (kVA)		TA Luft - EU Stage	50 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

## 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 <sup>3</sup> )
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.