

Cummins 500 kVA Generator Specifications

C550D5QB / M15 Q-Range — Independent technical reference based on the supplied Cummins Q Range brochure and product information

Quick Identification

The C550D5QB is the Cummins Q Range model that delivers **500 kVA at Prime** and **550 kVA at Standby** at 50 Hz. Its engine is the M15-G8 diesel engine, paired with a Stamford S5L1S-D4 alternator and PC 2.2 controller.

Parameter	Specification
Model	C550D5QB
Frequency	50 Hz
Fuel	Diesel
Prime rating	400 kW / 500 kVA
Standby rating	440 kW / 550 kVA
Engine	M15-G8
Alternator	Stamford S5L1S-D4
Controller	PC 2.2
Application	Stationary standby and prime power

Engine & Electrical Specifications

Specification	Value
Engine type	4-cycle, in-line, turbocharged and charge-air cooled
Bore	135 mm
Stroke	169 mm
Displacement	14.5 litre
Cylinder block	Cast iron, 6 cylinder
Starting voltage	24 volts
Fuel system	XPI
Cooling system	55°C ambient radiator
Alternator	Stamford series, brushless, single bearing, revolving field
Controller	PC 2.2, microprocessor-based
Battery capacity	2 × 140 Ah
Fuel tank	995 litre
Guaranteed sound power level, enclosed	106 dB(A) Lw(A)

Dimensions and Weight

Configuration	Length	Width	Height	Weight
Open	3500 mm	1750 mm	2120 mm	4154 kg
Enclosed	4530 mm	1780 mm	2630 mm	5458 kg

The supplied brochure notes that weights represent a set with standard features and that wet weights do not include fuel.

Key Features Relevant to the 500 kVA Class

- 50°C radiator designed for operation in high ambient temperatures.
- Enclosed gensets are specified for 38°C to 45°C and 1,000 m a.s.l. working at any load condition in the brochure.
- Open gensets are specified for above 50°C and 1,000 m a.s.l. working at any load condition in the brochure.
- Coolant heater supports engine starting in low ambient temperatures; the brochure identifies it as optional on open versions.
- Bolted frame concept for easier maintenance and service.
- Polymeric fuel tank and 110% spillage catchment are listed among the Q Range features.
- Standard scope includes battery charger, starting battery, battery disconnect, coolant heater (optional on open generators) and IV poles circuit breaker.

Fuel Consumption and Price — Important Note

The supplied Q Range brochure and the referenced Cummins product information do not provide a single fuel-consumption figure for the C550D5QB at a defined load, nor do they publish a fixed selling price. Fuel consumption varies with load, site conditions and configuration, while purchase price varies by supplier, enclosure, installation scope, taxes, transport and other options. For a quotation or project estimate, request the manufacturer's load-specific fuel-consumption data and a current commercial quotation.

Source & Verification

Primary source: Cummins Q Range brochure, Bulletin 6607969, Rev. 7/25, supplied for this reference. The C550D5QB specifications in this PDF are intended as a quick reference and should be checked against the latest manufacturer datasheet and the exact configuration offered for a project before procurement.

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