

Cummins 100 kVA Generator Specifications PDF

Technical reference and model comparison for the Cummins 6BTA5.9 I-Range

QUICK REFERENCE

For a 50 Hz application requiring **100 kVA prime power**, the C110D5I is the key model in this comparison. It is rated at **80 kW / 100 kVA prime** and **88 kW / 110 kVA standby**, using the 6BTA5.9-G6 engine.

What Does 100 kVA Mean?

A generator's kVA rating describes its apparent electrical power capacity. The same generator can have different prime and standby ratings, so the application and duty requirement should be checked before purchase.

For the models shown here, 100 kVA does not identify one universal model. For example, the C110D5I is a 50 Hz model with 100 kVA prime power, while the C80D6I is a 60 Hz model with 100 kVA standby power.

Cummins 100 kVA Generator Specifications – Model Comparison

Generator Model	Frequency	Prime kW / kVA	Standby kW / kVA	Engine Model
C80D6I	60 Hz	72 kW / 90 kVA	80 kW / 100 kVA	6BTA5.9-G6
C110D5I	50 Hz	80 kW / 100 kVA	88 kW / 110 kVA	6BTA5.9-G6
C100D6I	60 Hz	91 kW / 114 kVA	100 kW / 125 kVA	6BTA5.9-G6
C135D6I	60 Hz	123 kW / 153 kVA	135 kW / 169 kVA	6BTA5.9-G7

Important: The C110D5I is the 50 Hz model in this comparison that carries a 100 kVA prime rating. The C80D6I reaches 100 kVA at standby and is rated at 90 kVA prime.

Detailed C110D5I Specifications

The C110D5I is the most directly relevant model here when the requirement is 100 kVA prime power at 50 Hz. The following specifications summarize the information shown for this model.

Specification	C110D5I
Generator model	C110D5I
Frequency	50 Hz
Fuel type	Diesel
Prime rating	80 kW / 100 kVA
Standby rating	88 kW / 110 kVA
Engine model	6BTA5.9-G6
Rating	Prime / Standby
Generator range	6BTA5.9 I-Range

Key Selection Points

- **Frequency:** Confirm whether the installation requires 50 Hz or 60 Hz.
- **Prime rating:** Use the prime rating when the generator is intended for regular/primary power duty.
- **Standby rating:** Standby capacity is intended for emergency or backup applications.
- **Engine model:** The C110D5I uses the 6BTA5.9-G6 engine.
- **Complete configuration:** Confirm alternator, controller, breaker, enclosure, fuel tank and accessories in the final quotation.

Before Comparing Generator Prices

The generator model and rating should be confirmed before comparing prices. Two quotations described simply as '100 kVA generator' may have different prime/standby ratings, frequencies, accessories, enclosure arrangements or installation scope.

For a like-for-like comparison, check the rated kVA, rated kW, frequency, engine, alternator, fuel consumption, fuel tank capacity, acoustic enclosure, control panel, AMF panel, circuit breaker, battery and charger, installation, commissioning, warranty and after-sales support.

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Official product reference: <https://www.cummins.com/en-in/generators/products/6bta59-i-range>

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