



1010 kVA

C32

The Engine

The C32 Series engines utilize ACERT™ Technology as its building block making it reliable, rugged & durable. It is a solution for emission requirements that combines improvements in three systems vital to the combustion process: Air, Fuel, and Electronics. These engines have a smaller footprint, thus resulting in lower installation costs. They come equipped with Advanced ADEM™A4 controllers, which result in precise and efficient integration of engine components under any operating condition.

Performance

The C32 is a 32.1L displacement engine, V12 configuration with a 145mm Bore and 162mm Stroke length having a compression ratio of 15:1.

The Package generator

Caterpillar generator sets are packed at the state-of-the-art packaging facility of Caterpillar India Pvt. Ltd. (Power Systems Division), with load banks, twin beds, sound treated test cell and paralleling facility. Their perfect packaging in a compact design enables their easy installation, operation and maintenance.

The AC Generators

AC Generators are double bearing, star connected, self-excited and self-regulated, brushless with class H insulation and class H temp rise and are designed and manufactured for Caterpillar

and meet the following Specifications: IS 4722, BS: 5000, IEC34-1. Load Acceptance module provides the engine relief upon sudden block loading and improves its load acceptance and recovery time.

Diagnostic and Monitoring

Caterpillar EMCP 3 Series (Electronic Modular Control Panel) have a user-friendly interface and navigation and are scalable to meet a wide range of customer needs. They offer comprehensive engine & generator set monitoring, control and protection features, which eliminate the need for numerous switches, relays and meters. With EMCP 3 having modbus, we can communicate easily to other communication modules.

ADEM Controllers

The ADEM™A4 is an integral part of the innovative ACERT™ Technology that provides a higher degree of control over a large number of combustion variables than ever before. The ADEM™A4 is designed to control/interface Electronic Unit Injector (EUI) equipped engines. The ADEM™A4 engine system is composed of the ADEM™A4 ECM, control software, sensors, actuators, fuel injectors, and interface to the generator system. The prime benefit of an ADEM™A4 engine system is to be able to control and maintain the particulate emissions; both steady state and transient, while improving overall engine performance.

Engine Model	kVA	ekW	Speed	No. of Cylinders	Bore	Stroke	Disp
C32	1010	808	1500	12	145	162	32.1