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Diesel Generator Parts and Functions Pdf

Table showing the main parts of a diesel generator, their names, functions, and parameters:

Part Name	Function	Parameters
Engine	Converts chemical energy in fuel into mechanical energy to drive the generator	Engine power, fuel consumption, compression ratio, cooling system capacity
Fuel System	Stores, filters, and delivers fuel to the engine	Fuel tank capacity, fuel filter rating, fuel injection pressure
Cooling System	Maintains engine temperature and prevents overheating	Cooling system capacity, coolant temperature, coolant level
Alternator	Converts mechanical energy from the engine into electrical energy	Alternator efficiency, voltage regulation, power factor
Voltage Regulator	Regulates voltage output of the alternator to maintain a stable voltage level	Voltage regulation range, response time
Battery	Provides electrical power to start the engine and supports the electrical load during operation	Battery capacity, voltage, and type
Control Panel	Monitors and controls the generator's operation and provides information to the user	Control panel type, display type, functions and features
Exhaust System	Expels exhaust gases from the engine	Exhaust pipe diameter, muffler type and size
Lubrication System	Provides lubrication to the engine components to reduce friction and wear	Oil pressure, oil filter rating, oil capacity

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This table summarizes the main components of a diesel generator and their important parameters. Understanding these parts and their functions is crucial for ensuring the proper operation and maintenance of the generator.