

portable diesel generator with four mobile nylon wheels

Portable diesel generator is an efficient and reliable energy equipment, widely used in various engineering construction, outdoor activities and emergency power supply. Its design focuses on easy transportation and efficient use, providing flexible power solutions.

The generator can be enabled by either hand start or electric start, adapting to different user needs.

Portable Diesel Generator Features:

- **Starting mode:** Supports both hand start and electric start, offering convenience for various occasions and user preferences.
- **Engine design:** Single-cylinder, forced air-cooled, four-stroke, direct-injection OHV (overhead valve) engine. Features lightweight construction, energy-saving operation, and high efficiency to ensure excellent fuel economy.
- **High precision injection system:** Precision injection pump design ensures full combustion of fuel, reduces fuel consumption, and improves energy utilization.
- **Rack structure:** High quality metal tube with integral rack welding design, providing high safety, excellent heat dissipation, and enhanced reliability and durability.



- **Automatic welding:** Uses OTC automatic welding technology to increase rack firmness; interfaces are robust and not easily broken, improving safety.
- **Noise control:** Large silencer and dynamic balancing rotor, combined with shock-absorbing shell and frame design, lower the noise and reduce environmental interference.
- **Large capacity fuel tank:** Large tank design ensures long periods of continuous operation, reducing the need for frequent refueling.
- **Overload protection:** No-fuse circuit breaker offers overcurrent and overload protection; capacitor voltage regulator maintains stable output voltage to prevent equipment damage.
- **All-copper motor:** All-copper wire motor delivers excellent waveform, low distortion, strong overload capacity, and high reliability for stable power generation.
- **AVR automatic voltage regulator:** Automatically adjusts excitation current according to load, stabilizing output voltage.
- **Convenient transportation design:** Equipped with 4 wear-resistant nylon mobile casters for easy movement; optional brake universal wheels allow the unit to be fixed when in use, enhancing portability and convenience.
- **Multi-functional display:** Digital display voltmeter shows real-time generator voltage, frequency, and usage time, helping users monitor equipment status at any time.

Portable Diesel Generator Working Principle:

The working principle of the portable diesel generator is based on the internal combustion engine: diesel fuel is injected into the combustion chamber via the injection pump, mixed with air, and ignited. This drives the engine piston, whose motion is converted by the crankshaft into mechanical energy, which is then transformed into electrical energy by the generator. Stable alternating current (AC) is produced by the motor coil. The integrated AVR automatic voltage regulator ensures real-time regulation of output voltage, preventing voltage fluctuations and ensuring stable power for connected equipment.

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Model		DG5000	DG6000
Generator	Rated power	5.0 kw	6.0 kw
	Max power	5.5 kw	6.5 kw
	Rated voltage	230 Vac, 50Hz	
Engine	Fuel tank capacity	16L	16L
	Oil capacity	1.65L	1.65L
	phase	single	single
	Engine model	186F	192F
	Engine type	air cooled, four stroke, ohv, single cylinder, direct injection	
	Displacement	418cc	498cc
	Starting System	recoil, Electric	

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Size and Weight	Dimension(LxWxH)(mm)	730x510x750mm	730x510x750mm
	Net weight(KG)	108kg	113kg