

Data Center Backup Power Generators 20KW 30Kw 40Kw Wholesale It Can Move

Specifications :

Price	Contact us
Brand Name	Huali
Place of Origin	China
Min.Order Quantity	1
Payment Terms	OEM?ODM?OBM
Supply Ability	1000
Delivery Detail	3-7days

Detail Introduction :

Data Center Backup Power Generators are a critical investment for any organization that relies on continuous data center operation. They not only protect against potential data loss and service interruptions but also ensure business continuity in the face of unpredictable power outages. With the right setup and maintenance, DCBPGs can provide peace of mind and operational security for years to come.

Main Components and Construction

Prime Mover	Typically a diesel engine, chosen for its reliability and ability to quickly start and load. Alternatively, gas engines or turbines can be used, depending on the application and fuel availability.
Alternator	Converts mechanical energy from the prime mover into electrical energy, designed to output stable and clean power suitable for sensitive electronic equipment.
Fuel System	Ensures a constant fuel supply to the engine, including storage tanks, pumps, and filters to maintain clean fuel delivery.
Cooling System	Keeps the engine and alternator at optimal operating temperatures using air or liquid cooling mechanisms.
Control System	Includes an automatic transfer switch (ATS) and a generator control unit for monitoring, operation, and seamless switching between utility and generator power.

Usage Methodology

Initial Setup: Installation should adhere to local regulations and standards, typically involving professional setup and integration into the existing electrical system.

Automatic Operation: DCBPGs are designed to start automatically upon detection of a power outage by the ATS, ensuring no human intervention is required.

Manual Testing and Operation: Regular testing under load is recommended to ensure the system is always ready for an actual power outage scenario.

Maintenance Guidelines

To maintain optimal performance and reliability, regular maintenance of the DCBPG is essential:

Daily Inspections: Check for any signs of leakage, ensure fuel levels are sufficient, and verify that the control panel shows no warnings or errors.

Routine Maintenance: Follow the manufacturer's guidelines for oil changes, filter replacements, and system checks. This often includes checking battery charge and condition, cooling system fluid levels, and belt tension.

Annual Professional Inspection: Have a certified technician perform a comprehensive examination of the entire system, including load bank testing to ensure the generator performs as expected under load.



Advantages and Key Features

Reliability and Uptime: Provides an uninterrupted power supply, ensuring data center operations can continue seamlessly during power outages.

Efficiency: Modern generators are designed for fuel efficiency and can be equipped with eco-friendly options like low-emission engines and alternative fuels.

Scalability: Available in various sizes and configurations to meet the specific needs of any data center, from small server rooms to massive data complexes.

Smart Operation: Advanced control systems can automate testing schedules, log performance data, and even predict maintenance needs.

Durability: Constructed to withstand rigorous use and harsh conditions, ensuring a long service life with proper maintenance.