

# Centum™ Force Containerized Generator Sets

Meeting the growing  
demand for power



## FLEXIBLE OPTIONS

Centum™ Force, a Cummins Power Generation containerized generator sets range, provide significantly shortened installation and commissioning time. The stackable design allows for a smaller footprint and offers a lower cost of ownership. This revolutionary 50Hz product was developed in-house based on our legacy of reliable product and technological innovations, these complete power systems are engineered and optimized for diverse power applications.



## CUSTOMIZABLE SOLUTIONS

No matter what your power demands and challenges are, Centum™ Force meets your needs through a selection of completely configurable models and options. Even more customization is available through our Engineered To Order (ETO) process, if you so need. Multiple power output configurations are available in 50Hz, from 2,000kVA to 2,750kVA (2 MW to 2.75 MW).



## WIDE RANGE OF APPLICATIONS

Fully integrated Centum™ Force containers can protect the generator set from wind, rain and dust while operating at a quiet 85dbA@1m when VFD is used. Centum™ Force is easy to install and easy to move, helping customers implement the generator set in many applications, regardless of environmental conditions. The applications for Centum™ Force are limitless, here are just a few:

- Data centers
- Hospitals
- Manufacturing plants
- Oil and gas
- Commercial buildings
- Public utilities
- Temporary power and rental



## BASE COMPONENTS AND OPTIONS

Basic Information	Generator Models	C2000D5-PB	C2250D5-PB	C2500D5A-PB	C2750D5B-PB
	ESP Rating (kVA/kW)	2063 / 1650	2250 / 1800	2500 / 2000	2750 / 2200
	Prime and DCC Rating (kVA/kW)	1875 / 1500	2000 / 1600	2250 / 1800	2500 / 2000
	Engine Model	QSK60-G3	QSK60-G4	QSK60-G8	QSK60-G23
	Alternator Model	S7L1D-G41	S7L1D-H41	S7L1D-J41	LVS1804T1
	Controller	PC3.3	PC3.3	PC3.3	PC3.3
	Container Size	40ft HC	40ft HC	40ft HC	40ft HC
	Cooling System Limiting Ambient Temperature (LAT)	50°C	50°C	50°C	45°C / 50°C
	Fuel Consumption L/h @100% load PRP/ESP	353 / 388	377 / 422	446 / 499	496 / 540
Scope of Supply	1000 Dual Wall Fuel Tank	○	○	○	○
	Fuel Tank 2000L or 4000L	○	○	○	○
	Fuel Tank 6000L	●	●	●	●
	Motorized Valves Set (1 inlet, 1 outlet)	○	○	○	○
	Motorized Valves Set (2 inlet, 1 outlet)	○	○	○	○
	Fuel Level Monitoring Analog / Remote	●	●	●	●
	Motorized Air Intake and Outlet Louvers	●	●	●	●
	Exhaust Silencer	●	●	●	●
	Touch Screen HMI	●	●	●	●
	Quick Connectors for External Interfacing	●	●	●	●
	Starting Batteries	●	●	●	●
	Battery Charger	●	●	●	●
	Engine Coolant Heater	●	●	●	●
	Alternator Heater	○	○	○	●
	Alternator Stator Temperature RTD	○	○	○	○
	Alternator Bearing Temperature RTD	○	○	○	○
	Exhaust Temperature Monitoring	○	○	○	○
	Additional Auxiliary Alternator (HV Applications)	○	○	○	○
	10.5/11 kV High Voltage Output	○	○	○	○
	LV Circuit Breaker	○	○	○	○
	Fuel Transfer Pump (Bulk Tank to Internal)	○	○	○	○
	VFD Fan for Improving Sound Attenuation	○	○	○	○

STANDARD



OPTION



# Centum™ Force

## ISO STANDARD CONTAINER

- ISO 40ft. long HC container
- CSC certified
- Standard sea freight
- Stackable installation for flexible layout

## SMART MONITORING

- Touch screen HMI
- Power Command control systems
- Smart comprehensive system monitoring
- Can be connected to Remote Monitoring Systems

## AIR FLOW SYSTEM

- Motorized louvers for air circulation
- Works in severe environment conditions
- Removable for easy maintenance

## FUNCTIONAL IN EXTREME CLIMATES

- Applicable in ambient temperature 45/5 0°C

## INTEGRATED FUEL TANK SYSTEMS

- Multiple fuel tank size options
- External tank interface



## VERTICAL HOT AIR DISCHARGE

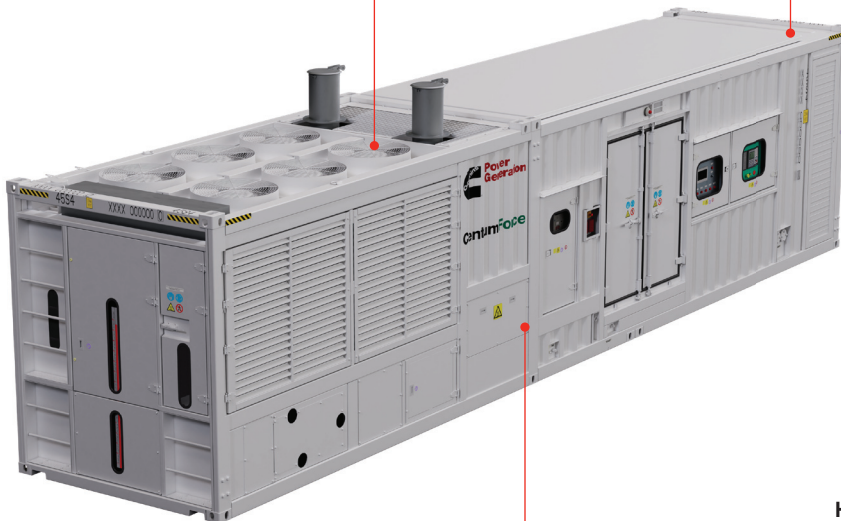
- Flexible site layouts
- Independent cooling fans controls
- Uses less power than mechanical radiators

## FORWARD THINKING DESIGN

- Removable roof, if required for servicing
- Modular and accessible cooling system elements
- Control panel embedded in container

## STANDARD QUICK SOCKET CONNECTORS

- Control harness quick plug-in connection
- Configurable with build-in or for external switchgear
- Plug and play design



## NOISE REDUCTION DESIGN

- Critical class 35dBA silencer
- Noise reduction box
- Cummins special acoustic insulation



## HIGHLY INTEGRATED

- NGR ground resistance cabinet
- Large fuel tank
- Fire monitoring
- Sound attenuation
- Remote Monitoring System ready to accept

## EASE OF ACCESS

- Designed to provide easy access to main areas for service and operation through three double-wide doors and one single door



## FASTER COMMISSIONING

Centum™ Force containerized generator set is factory pre-integrated into an ISO standard container. You will find an independent large fuel tank, grounded resistance cabinet, exhaust silencer and fire-fighting systems and standard quick external socket connections, within the container at time of delivery. This allows for faster installation and commissioning at the site, shortening project delivery times for customers.

## QUICK START

Centum™ Force containerized generator set are engineered for fast start-up and optimized for diverse critical power requirements. Each generator is equipped with an advanced paralleling control module, allowing it to support a fast start of multiple units paralleled for power demands in emergency situations.

## DECREASED FOOTPRINT

Save site space with Centum™ Force's ISO standard container, compact structure, factory pre-integrated exhaust and cooling systems, vertical exhaust design, flexible layout and requires less space between units. Compared with a traditional container, Centum™ Force can stack up to two containers high, saving up to 34% site space.

## CONVENIENT OPERATION

Centum™ Force is equipped with a multi-function intelligent control system, which monitors and manages the entire system's performance. For convenient maintenance and operation, Centum™ Force is available with a full color touch control screens, container wall installed panels and friendly interfaces. Multiple service doors, removable container roof and radiator core, make service operations much easier for technicians. After-sales service for all parts are available offering reduced downtime and maintenance waiting time.

## ROBUST PERFORMANCE

Centum™ Force meets ISO8528-9 and YD-5083 standards for earthquake intensity 9 degrees requirements.



## LESS CONSTRUCTION TIME

Save space and time on construction, installation and commissioning with Centum™ Force's modular, standardized and stackable design, which is convenient for moving and future site expansion. Standard external quick socket connection enables easier installation and quicker commissioning at the site.

## FLEXIBLE LAYOUT

Centum™ Force is engineered with a vertical exhaust design, allowing for a variety of site layout combinations of multiple Centum™ Force units, including head-to-head, back-to-back, head to back and two-layer stacking, to name a few. In addition, a vertical exhaust and smaller footprint from the container mean that Centum™ Force can help customers make full use of space and allow them to have more generator sets, compared with traditional containerized generators.



## The power of one

At Cummins, we offer complete power generation solutions that are designed, manufactured and supported by us. Customers benefit from one source for whole product in life cycle accountability, service and support by Cummins, original plant installation and testing and warranty assurance.

### WORLD CLASS SERVICE AND SUPPORT

All systems in Centum™ Force have been seamlessly integrated at the factory. Centum™ Force's modular design allows for ease of repositioning or redeployment. Support doesn't stop there. With the largest global and local support footprint in the industry, Cummins owns, trains and controls its entire distributor network. You'll always have a direct connection to the people who know power generators best.

### COST SAVING

The Centum™ Force generator set is shipped within its ISO standard container, making the generator set convenient and more cost efficient to ship overseas. Centum™ Force's stackable and independent fuel supply design significantly save the construction cost of steel platform and external fuel system, saving capital expenditure, construction and labor costs. Fast installation allows for quicker cash flow.

**For more details, please contact your local distributor.**



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