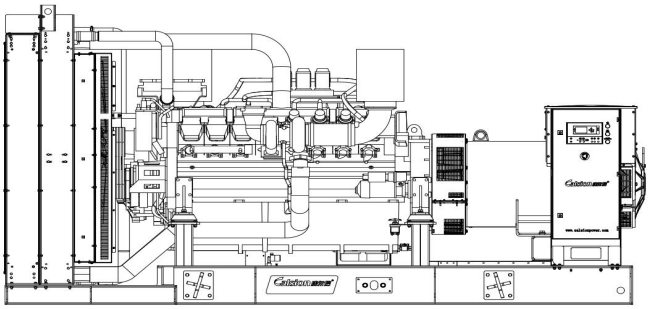
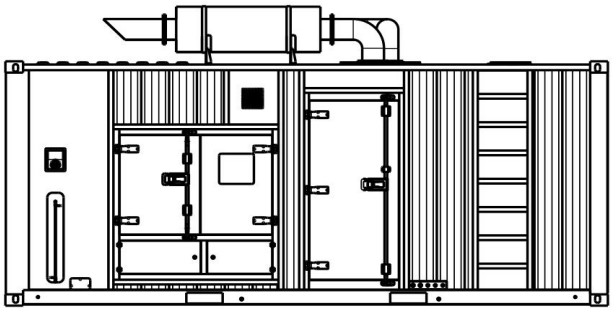
Calsion 康尔信®
POWER THE WORLD WITH CHINESE WISDOM

1000kVA/800kW
Calsion CMS Series Diesel Generator Sets





系统额定功率

Model	Voltage (V)	Phase	Frequency (Hz)	Prime Power			Standby Power			Data Center Power		
				kW	kVA	AMPS	kW	kVA	AMPS	kW	kVA	AMPS
C1000MS CE1100MS	380	3	50	800	1000	1519	880	1100	1671	NA	NA	NA
	400	3	50	800	1000	1443	880	1100	1588	NA	NA	NA
	415	3	50	800	1000	1391	880	1100	1530	NA	NA	NA

Note：COSΦ=0.8；Models with 'E' denote standby rating, without 'E' denote prime rating
For products at other voltage levels, please consult the original manufacturer

ITEMS	OPEN	SILENT
Dimensions (L*W*H) (mm)	4000*1500*2100	ISO 20'ft GP
Weight (kg)	6900	11780
Control Module Brand	DEIF	DEIF
Single Genset Controller	SGC	SGC
Paralleling Controller(Optional)	AGC	AGC

Product Features

Advantages

— Optimal fuel efficiency
— Robust Power & Superior Performance
— High Reliability & Long Service Life
— The most advanced high-pressure common rail Fuel injection system
— The most advanced ADEC Electronic management system
— Long maintenance and repair interval

Standards

— The unit is designed and manufactured in ISO9001, ISO14001 and ISO45001 certified facilities
— The unit complies with ISO 8528 and GB/T 2820 standards
— The alternator complies with NEMA MG1, BS5000, ISO, DIN EN, and IEC standards

Certificates

— CE Certificate

Performance Guarantee

— Unit undergoes transient response testing in accordance with ISO 8528-5
— Verified product design, quality, and performance
— Engines，alternator and system have all passed prototype and factory testing

A full range of accessories is optional

— Control Panel
— Circuit Breaker/Distribution Panel
— Fuel System
— Oil pipe with shut-off valve mounted on base
— Starting/Charging System
— Exhaust System
— Mechanical and Electrically Driven Radiators

Emissions

— Fuel consumption optimized
— Emissions optimized (optional)

Calsion is a one-stop system supplier

Hefei Calsion Electric System Co., Ltd.
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Technical Specifications

Diesel Engine

Brand	mtu
Model	16V2000G26F
Prime Power (kW)	890
Standby Power (kW)	979
Bore ×Stroke (mm)	135×156
Cylinder Number & Arrangement	16V
Displacement (L)	35.7
Compression Ratio	17.5 : 1
Rated Speed (rpm)	1500
Aspiration	Exhaust Turbocharging
Max Exhaust Back Pressure (kPa)	5
Exhaust Flow Rate (m3/h)	10008
Exhaust Temperature (℃)	530
Fuel Cons. at 100% Load (g/kWh)	191
Engine Oil Consumption (g/kWh)	0.67
Speed Control	Electronic/ADEC
Fuel Supply System	Common rail fuel injection
Cooling System	Radiator-Cooler with fan
Air Intake Volume (m3/h)	79560
Air Exhaust Volume (m3/h)	75600
Total Coolant Capacity (L)	102
Total Lubricant Capacity (L)	200

Generator Set Parallel Controller

The AGC controller can be used as a single generator set controller. Multiple AGC controllers can also be integrated into a complete power management system based on synchronous, islanded, or grid-connected operation.
The AGC controller offers users multiple options. Through main power station management, up to 32 generator sets can be operated. If more than 32 generator sets are required, expand power station management to group generators and connect up to 32 main grids or 32 groups.
The AGC controller supports serial communication protocols, including Modbus (RS-485, USB, and TCP/IP) and Profibus. This capability enables remote monitoring of generator sets and power plants.

Alternator

Brand	Leroy Somer
Excitation System	Brushless excitation
Voltage Regulation Method	Automatic Voltage Regulation
IP Rating	IP23
Insulation Class	H
Temperature Rise	Class H (LV) / Class F (HV)
Short-Circuit Current Capability	300%(3In):10s(with PMG or AREP)
Overspeed Capability	1800rpm

Environmental conditions specified in GB 1105 and ISO 3046 (compliant)

Altitude (m)	≤1000
Ambient temperature (℃)	-25~50
Relative humidity (%)	80

Generator Set Controller

The SGC controller provides protection and control for generator sets, configurable for engine drive, standalone generator set control (off-grid/island mode), and automatic mains failure (AMF) start-up. Featuring AUTO and MANUAL modes, it incorporates extensive control and protection functions suitable for engines and generators, including coolant temperature control, electrical monitoring, and grid voltage/frequency monitoring.

Standard and Optional Configurations

Diesel Engine

- ■ four-stroke
- ■ Standard Single-Stage Air Filter
- ■ Oil drain pipe & shut-off valve
- □ Emission-optimized engine
- ■ Closed-loop crankcase ventilation
- ■ Electronic Synchronous Speed Control
- ■ Electronic Management System Fuel Injection
- ■ Fuel-optimized engine

Cooling System

- ■ Water pump
- ■ Thermostat
- □ Radiator for 40℃
- ■ Radiator for 50℃
- ■ Intake air intercooler
- ■ Mechanically driven radiator
- □ Electrically driven radiator
- □ Jacket water heater

Alternator

- ■ NEMA MG1, BS 5000, ISO, DIN EN, and IEC standards
- ■ Self-ventilating structure
- ■ Good voltage waveform
- ■ Steady State, V/Hz Regulator
- ■ Leroy Somer Alternator
- □ Engga Alternator
- □ Marathon Alternator
- □ Uprated Alternator
- ■ Automatic Voltage Regulator
- ■ Voltage fluctuation from no load to full load: ±0.25%
- ■ Brushless alternator, brushless exciter
- ■ 4-pole, rotating magnetic field
- □ Withstands short-circuit currents up to 300% of rated current for 10 seconds
- □ Permanent Magnet Exciter
- □ Other Alternator

■ Standard Configuration □ Optional Configuration

Three-phase | 50 Hz | 50Hz | 1500rpm

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Standard and Optional Configurations

Control Panel

- ■ Island Operation
- ■ Automatic Mains Failure with ATS
- □ Automatic Mains Failure (including breakers control of the genset and mains)
- □ Islanded operation of multiple units
- □ Automatic Mains Failure & Short-term (<10s) Mains Parallel Operation after Restoration
- □ Single Set Mains Parallel Operation
- □ Multi-set Mains Parallel Operation
- ■ J 1939 Engine ECU Communication
- ■ Multiple programmable contact inputs
- ■ Event Log
- □ Different expansion modules
- □ RTU-TCP Gateway
- □ Deep Sea Controller
- □ ComAp Controller
- □ Basler Controller
- ■ Deif Controller
- ■ Complete System Measurement
- ■ Digital Measurement
- ■ Engine Parameters
- ■ Unit Protection Functions
- ■ Engine Protection Function
- ■ Multi-contact output
- ■ Multilingual Capability
- □ Remote Signal Transmitter

Fuel System

- ■ Oil supply hose on the base
- □ Fuel filter with water separator
- □ Independent fuel cooler
- ■ Integrated Fuel Cooler in Radiator
- □ Switchable fuel filter with water separator

Circuit Breaker / Power Distribution

- □ 3-pole circuit breaker
- □ 4-pole circuit breaker
- □ Integrated Breaker Panel Solution
- □ Manual operation of circuit breakers
- □ Electrically Operated Circuit Breaker
- □ Split-Type Breaker Panel Solution

Start / Charging System

- ■ DC starter
- ■ Maintenance-free batteries and connecting cables
- □ Battery rack
- ■ Battery charger

Exhaust System

- ■ Exhaust bellows with connecting flange
- ■ Exhaust silencer with 15 dB(A) noise attenuation
- □ Exhaust silencer with 25 dB(A) noise attenuation
- □ Exhaust silencer with 35 dB(A) noise attenuation
- □ Y-piece

Base Frame

- ■ Welded base frame
- ■ Modular base design
- ■ Flexible mounting of engine and alternator

■ Standard Configuration □ Optional Configuration

Primary power (PRP) :
Suitable for equipment where mains power is unavailable or unreliable. Under variable load conditions, the generator set has unlimited operating hours. It possesses a 10% overload capacity for one hour within a 12-hour period. Power output complies with ISO 8528-1, ISO 3046-1, BS 5514, AS 2789, and DIN 6271. Average load factor: ≤75%.

Standby power (ESP) :
Suitable for applications with stable mains power supply. During mains power outages, standby power can be used to handle variable loads without overload capability. Power compliance meets ISO 8528-1, ISO 3046-1, BS 5514, AS 2789, and DIN 6271 standards. Average load factor: ≤85%. Annual operating time: Maximum 500 hours.

Data Center Power (DCP) :
Suitable for applications with stable mains power supply. The operating time of the generator set is unrestricted under constant or variable load conditions. One hour of 10% overload operation is permitted every 12 hours. Power output complies with ISO 8528-1, ISO 3046-1, BS 5514, AS 2789, and DIN 6271. Average load factor: ≤100%.

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