



System Rated Power

Model	Voltage (V)	Phase	Frequency (Hz)	Prime Power			Standby Power			Data Center Power		
				kW	kVA	AMPS	kW	kVA	AMPS	kW	kVA	AMPS
C1500P6	416	3	60	1200	1500	2082	1320	1650	2273	1200	1500	2082
CE1650P6	440	3	60	1200	1500	1968	1320	1650	2149	1200	1500	1968
	480	3	60	1200	1500	1804	1320	1650	1970	1200	1500	1804
C1500P6-10.5	13800	3	60	1200	1500	63	1320	1650	69	1200	1500	63
CE1650P6-10.5												

Note : $\cos\phi=0.8$; 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)	5000*2200*2600	ISO 40'ft HQ
Weight (kg)	9944	21500
Control Module Brand	DEIF	DEIF
Single Genset Controller	SGC	SGC
Paralleling Controller(Optional)	AGC	AGC



Product Features

Advantages

- Excellent fuel efficiency
- Robust Power & Superior Performance
- High Reliability & Long Service Life
- Outstanding load Acceptance
- 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

Emissions

- Fuel consumption optimized

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

Calsion is a one-stop system supplier

Hefei Calsion Electric System Co., Ltd.

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www.calsionpower.com
Hotline: +86-400 168 1996
Version 2026-02

Technical Specifications

Diesel Engine

Brand	Perkins
Model	4012-46TAG2A
Prime Power (kW)	1348
Standby Power (kW)	1475
Bore ×Stroke (mm)	160×190
Cylinder Number & Arrangement	12V
Displacement (L)	45.84
Compression Ratio	12.8 : 1
Rated Speed (rpm)	1800
Aspiration	Turbocharging
Max Exhaust Back Pressure (kPa)	5
Exhaust Flow Rate (m ³ /h)	16866
Exhaust Temperature (°C)	377
Fuel Cons. at 100% Load (g/kWh)	207
Engine Oil Consumption (g/kWh)	0.4
Speed Control	Electronic
Fuel Supply System	Direct Injection
Cooling System	Radiator-Cooler with fan
Air Intake Volume (m ³ /h)	TBD
Air Exhaust Volume (m ³ /h)	TBD
Total Coolant Capacity (L)	223
Total Lubricant Capacity (L)	157.5

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	2250rpm

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

Altitude (m)	≤1000
Ambient temperature (°C)	-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°C
- Radiator for 50°C
- Intake air intercooler
- Mechanically driven radiator
- Electrically driven radiator
- Jacket water heater

- Standard Configuration
- Optional Configuration

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
- Up rated 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



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Standard and Optional Configurations

Control Panel

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

Fuel System

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

- Standard Configuration □ Optional Configuration

Circuit Breaker / Power Distribution

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

Start / Charging System

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

Exhaust System

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

Base Frame

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

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: ≤80%.

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: ≤80%. Annual operating time: Maximum 300 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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