# CBE2000 Pro

## All-in-one



## INTRODUCTION

The CBE2000 Pro combines stackable and all-in-one design allows for easy integration into various spaces, adapting to your specific energy needs. It supports dynamic electricity pricing and real-time power management, while its AC-input charging enables reliable grid-based backup or peak-shaving operation. It's powered by AI-driven insights that optimize charging schedules, predict maintenance needs, and enable imbalance-market trading.

## HIGHLIGHT

- **Plug and Play**
- **Expandable Capacity**
- **Energy Smart Home**
- **Imbalance Market Trading**
- **AI-powered System**

Safety Certification

IEC62109-1, IEC61000-6-1/-3, IEC61000-3-2/-3, IEC62619, EN 50549-1/-10, NEN EN50549-1+BWBR0037940 NETCODE, ETSI EN300328, ETSI EN301489-1/17, OVE-DIRECTIVE R25: 2020-3 TOR ERZEUGER TYPE A, VDE 4105, VDE 0124, NF50549-10, UN 38.3, C10/11, CEI 0-21, IEC61000-4, IEC 62920

# Specification

| Model | CME03-2BS204 | CME03-2BS204-07 | CME03-2BS204-08 | CME03-2BS204-19 |
|---|---|---|---|---|
| **Battery Data** | | | | |
| Capacity | Main battery: 2048Wh<br>Expansion battery: Max. 5x 2048Wh<br>Total capacity: Max. 12288Wh | | | |
| Voltage Range | 43.2 V - 57.6 V | | | |
| Rated Voltage/Capacity | 51.2 V/40 Ah | | | |
| Life Cycle (Times) | > 6000 (25°C) | | | |
| Battery Type | LiFePO4 | | | |
| **PV Input** | | | | |
| Input Power | 4*650 W | | | |
| Input Voltage | 16 V - 60 V | | | |
| Max. Input Current | 18±0.5 A | | | |
| Number of MPPT | 4 | | | |
| **Grid-tied (AC)** | | | | |
| Grid-tied Input Power | 2500 W max. | | | |
| Grid-tied Output Power | 2500W max. | 799W | 800W | 1999W |
| Output Voltage Range | 176~264 VAC | | | |
| AC Frequency | 50 Hz | | | |
| Max. Intput Current | 11 A | | | |
| Power Factor | 0.8 lagging - 0.8 leading | | | |
| **Bypass (AC)** | | | | |
| Rated Output Power | 2500W | | | |
| AC Output Current | Max. 11A | | | |
| Output Voltage /Frequency | 176~264 VAC/50 Hz | | | |
| Backup Output Peak | 200% 2s | | | |
| EPS Switching Time | < 10ms | | | |
| **Environmental and Mechanical** | | | | |
| Communication | Wi-Fi & Bluetooth LE; Ethernet; RS485 | | | |
| Storage Temperature Range | -20°C to +55°C | | | |
| Operating Temperature Range | -20°C to +55°C(derated when the temperature is higher than +45°C) | | | |
| Operating Humidity | ≤ 85%RH (non-condensation) | | | |
| Storage Humidity | 10% - 85%RH (non-condensation) | | | |
| Enclosure Rating | IP65 | | | |
| Cooling Mode | Natural convection | | | |
| Dimensions (W × H × D) | Main battery: 580 mm × 350 mm × 275 mm<br>Expansion battery: 580 mm × 268 mm × 230 mm | | | |
| Weight | Main battery: 29.5 Kg; Expansion battery: 25.5 Kg | | | |
| **Efficiency** | | | | |
| Max. Output Efficiency | 94.8% | | | |
| MPPT Efficiency | 99.5% | | | |
| Battery Charge Efficiency | 94.5% | | | |