

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 41
05, 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	Host battery: 2048Wh Expansion battery: Max. 5x 2048Wh 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	16±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. Output Current	11 A			
Power Factor	0.8 lagging - 0.8 leading			
Bypass (AC)				
Rated Output Power	2500W			
AC Output Current	Max. 22A			
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			
Efficiency				
Max. Output Efficiency	94.8%			
MPPT Efficiency	99.5%			
Battery Charge Efficiency	94.5%			