

# Voltsmile

## DATASHEET



# C512

Model

C512 High-voltage Battery System

Main Parameter

Battery Chemistry	LiFePO4
Nominal Voltage	512V
Capacity	51.2kWh
Usable Capacity	46.08kWh
Charging Current	80A
Discharging Current	80A
Communications	CAN / Wireless
Scalability	Max 6 units in parallel
Weight	560 KG(include 10 batteries and 1 controller)
Dimensions	600 × 630 × 1600
Working Temp	0°C~50°C
Store Temp	-20°C~55°C
IP Rating	IP20
Humidity	5%~95% (RH)
Warranty	10 years
Designed Life	10 years+
Altitude	< 3500m
Certifications	IEC62619 / IEC62477 / UN38.3/ CE / ROHS

\*DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C.  
System usable energy may vary due to system configuration parameters;  
\*The current is affected by temperature and SOC;  
\*Conditions apply, refer to Voltsmile's warranty terms.

Introduction

The Voltsmile C512 High Voltage Lithium Iron Energy Storage System, a state-of-the-art solution designed to meet the energy demands of large homes, small offices, and small businesses. With an impressive voltage of 512V and a substantial capacity of 51.2kWh, the Voltsmile C512 ensures reliable and efficient power storage, making it the ideal choice for high-capacity energy needs.