

# Mobile Energy Storage System



**CHALONG FLY**  
Innovate technology  
Endless power

»»» CF PowerCab 50 Indoor 12kW-15kWh

## Longer Life and Safer

A+ grade lithium iron phosphate  
Battery management system with multi-level protection.

## Flexible and Expandable

Featuring a wheeled design for easy transport, it's ideal for home backup, EV charging expansion, and off-grid applications.

## Silent operation

The CF PowerCab 50 Indoor model has a noise level of less than 40 dB

## Plug and play

No complicated setup or installation is required. It supports multiple output modes to meet different power needs.



## Applications:



Villa



Construction Site



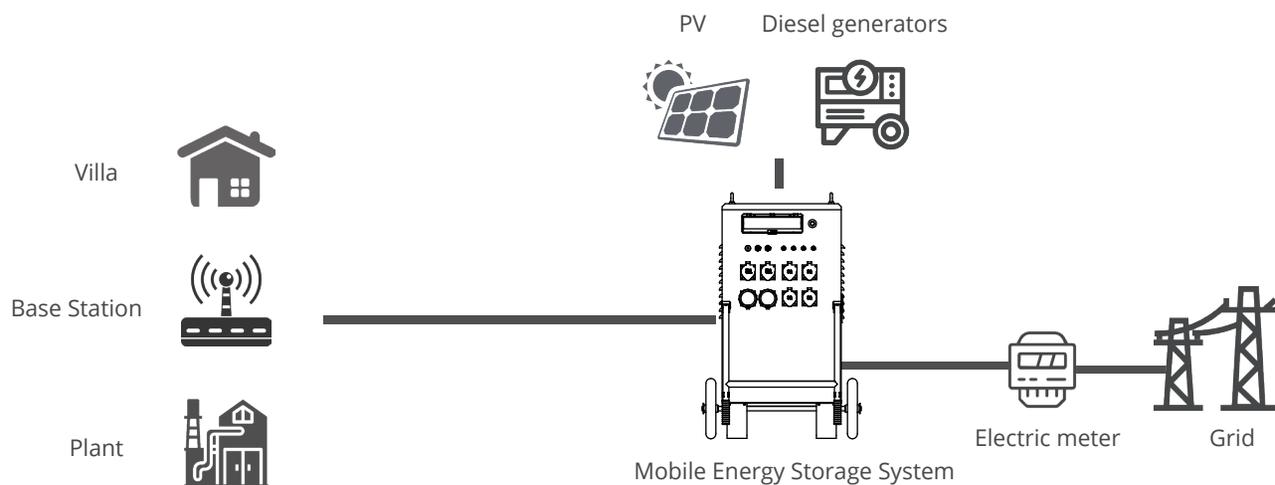
Farm



Plant



Base Station

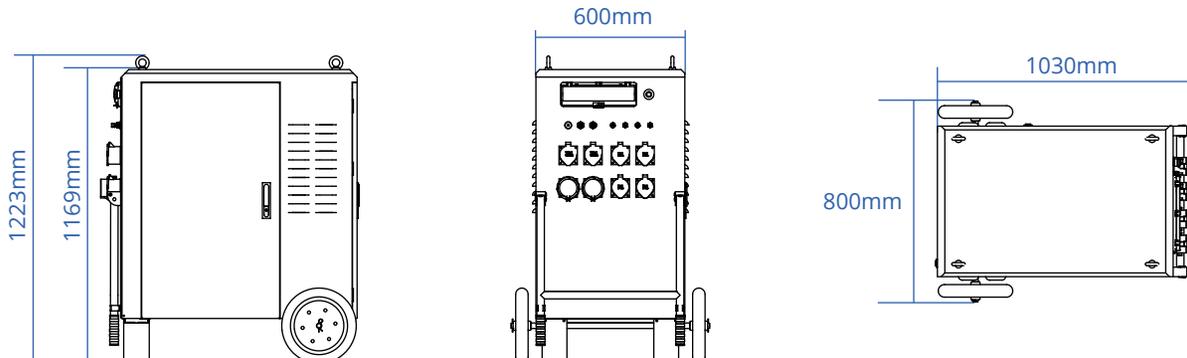


# System Technical Parameters

Model		CF PowerCab 50 Indoor
<b>Battery Data</b>		
Nominal Energy		15kWh
Nominal Voltage		51.2V
Battery Chemistry		Lithium Iron Phosphate(LiFePO4)
Cycle Life		≥6000 cycles(@25°C, 0.5P/0.5P)
Cell Specification		3.2V 100Ah
Battery Pack Energy		5kWh
String Configuration		3P16S
Operating Voltage		44.8V - 58.4V
Rated Charging Power		0.5P
Rated Discharging Power		0.5P
<b>Inverter Data</b>		
Rated Power		12kW
Please Refer to the Inverter Section for More Details		
<b>General</b>		
Dimension(W x D x H)		600 x 1030 x 1223mm
Weight		Approximately 282.5 Kg
IP Rating		IP20
Cooling Method		Natural cooling
Charging Temperature		0°C~55°C
Discharging Temperature		-20°C - +60°C
Storage Temperature		-10°C - +45°C
Relative Humidity		15% - 90%(Non-condensing)
Operating Altitude		≤3000m
Communication		CAN/RS485
Compliance		UN38.3, MSDS

\* The actual product may have slight differences from some promotional videos or pictures. Please refer to the actual product. Unless otherwise specified, the data on this page are all from our company's laboratory. The data may have errors due to changes in the objective environment.

\* The specifications are subject to change without prior notice.



# Inverter Technical Parameters Part 1

Model	SUN-12K-SG04LP3-EU
<b>Battery Input Data</b>	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40-60
Max. Charging Current (A)	240
Max. Discharging Current (A)	240
External Temperature Sensor	Yes
Charging Curve	3 Stages/ Equalization
Charging Strategy for Li-on Battery	Self-adaption to BMS
<b>PV String input Data</b>	
Max. DC Input Power (W)	15600
Rated PV Input Voltage (v)	550(160-800)
Start-up Voltage (v)	160
MPPT Voltage Range (V)	200-650
Full Load DC Voltage Range (V)	350-650
PV Input Current (A)	26+13
Max.PV <sub>I<sub>sc</sub></sub> (A)	34+17
No.of MPP Trackers	2
No.of Strings per MPP Tracker	2+1
<b>AC Output Data</b>	
Rated AC Output Active Power (W)	12000
Max AC Output Active Power(W)	13200
AC Output Rated Current (A)	18.2/17.4
Max AC Output Current (A)	20/19.1
Max.Three-phase Unbalanced Output Current (A)	27.3/26.1
Max. Output short circuit current (A)	75
Max. Continuous AC Passthrough (A)	45
Peak Power (off grid)	2 time of rated power, 10 S
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380,230/400Vac
Grid Type	Three Phase
Total Harmonic Distortion (THD)	<3% (of nominal power)
DC CurrentInjection	<0.5% I <sub>n</sub>
<b>Efficiency</b>	
Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%

## Inverter Technical Parameters Part 2

<b>Model</b>	<b>SUN-12K-SG04LP3-EU</b>
<b>Protection</b>	
Integrated	Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection
Surge Protection	DC Type III / AC Type III
Over Voltage Category	DC Type II/AC Type III
<b>General Data</b>	<b>General Data</b>
Operating Temperature Range(°C)	-40-60 °C, >45°C Derating
Cooling	Smart Cooling
Noise (dB)	≤45 dB
Communication with BMS	RS485; CAN
Weight (kg)	33.6
Cabinet Size (WxHxD mm)	422x702x281(Excluding Connectors and Brackets )
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 Years (10 Years Optional)