



# Sunsynk 5.12kWh Lithium-ion Phosphate Battery Module

## Overview

Ideal for residential energy storage, off-grid energy storage, UPS applications and small, micro and medium enterprises.

## Features

- 4kWh usable capacity per battery
- 5.12kW maximum discharge power (C1 rated)
- Superior battery quality using 16 x 100Ah cells as opposed to multiple stacked wafers
- Sophisticated Battery Management System built into every unit
- Multi-parallel configurations of up to 16 units
- 6000 cycles with 80% DOD
- 10 year Performance guarantee: Battery will have 80% of the initial battery capacity remaining and usable after 10 years
- Compatible with the entire Sunsynk Hybrid Inverter range and other approved brands
- 5 year manufacturers' warranty.

## What's inside the box

- 1 x set 5.12kWh battery pack
- 1 x Product user manual
- 1 x 0.185m Parallel anode power cable
- 1 x 0.185m Parallel cathode power cable
- 1 x 0.2m Parallel communication cable
- 1 x 1m Grounding cable
- Inspection report
- 1 x Warranty card

## Additional components required that must be ordered with each FSBSK5.1

- **FSBSK5FIC**  
6002844073527  
Fast installation components for FSBSK5.1 (4 piece set)
- **FSBSK5.1 CABLE**  
6002844073510  
Pack of three cables (for FSBSK5.1):
  - 1.5M Anode
  - 1.5M Cathode
  - 1.5M Communication



Product Code: FSBSK5.1  
Bar Code: 6002844073503

## Specifications

Cell Type	LiFePO4
Rated Voltage	51.2 V
Rated Capacity	100Ah
Rated Energy	5.12kWh
Packing	1P16S
Working Voltage Range	44.8~57.6V
Standard Charging Current	50A
Max. Continuous Charging Current	50A
Standard Discharging Current	50A
Max. Continuous Discharging Current 100A	(1C, 25°C±2°C)
Max. Pulse Discharging Current	200A (2C, 30S, 25°C ±2°C SOC>40%)
Standard Charging Method	0.5C CC to 57.6V, CV at 57.6V till current is 0.05C
Working Temp.	Charging: 0 °C~50°C Discharging: -20°C—55°C
Working ROH	20%-80%
Storage Temp.	-20~50°C

## Dimensions/Weight/Other

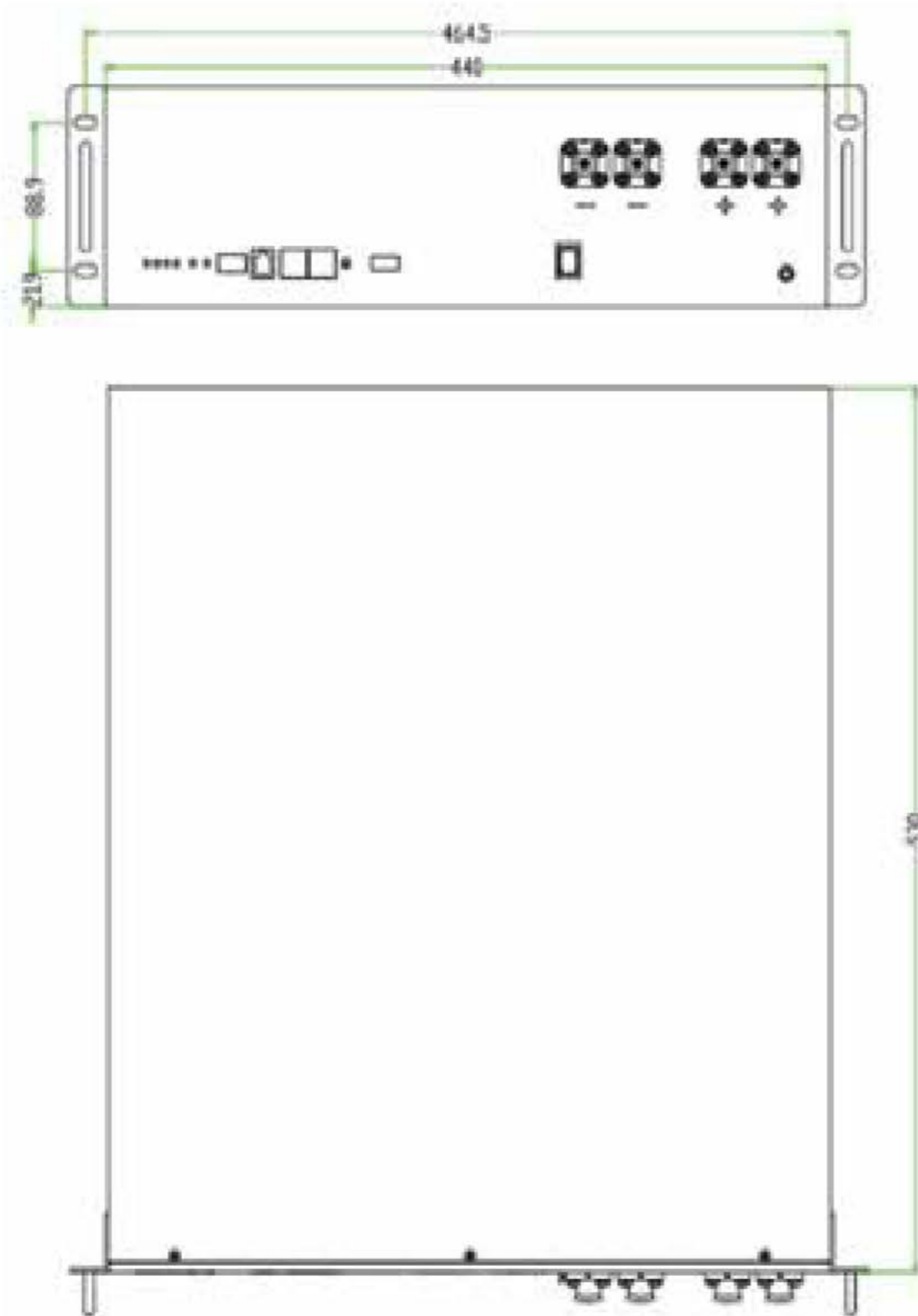
Dimensions	440mm x 530mm x 132mm
Weight	43kg
IP Protection Level	IP20
Module	1P16S (SOC ≥ 40%)

## Battery compatible with below inverter brands

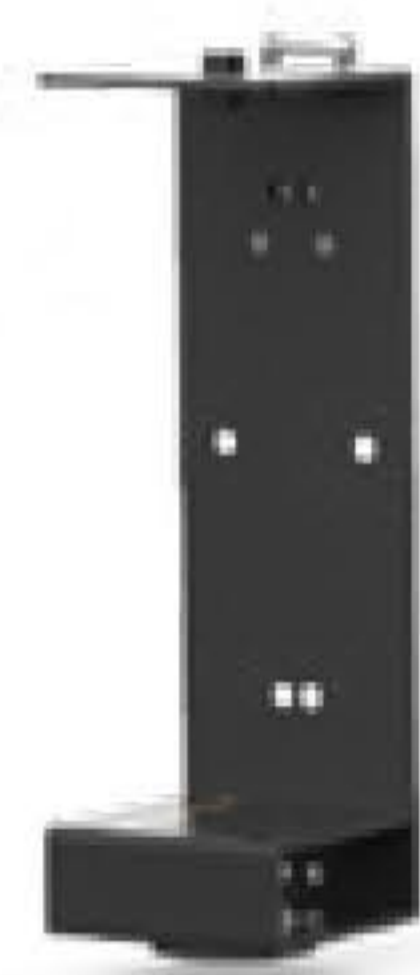


## Battery Module Size

Maximum parallelable amount of 4 units on one system



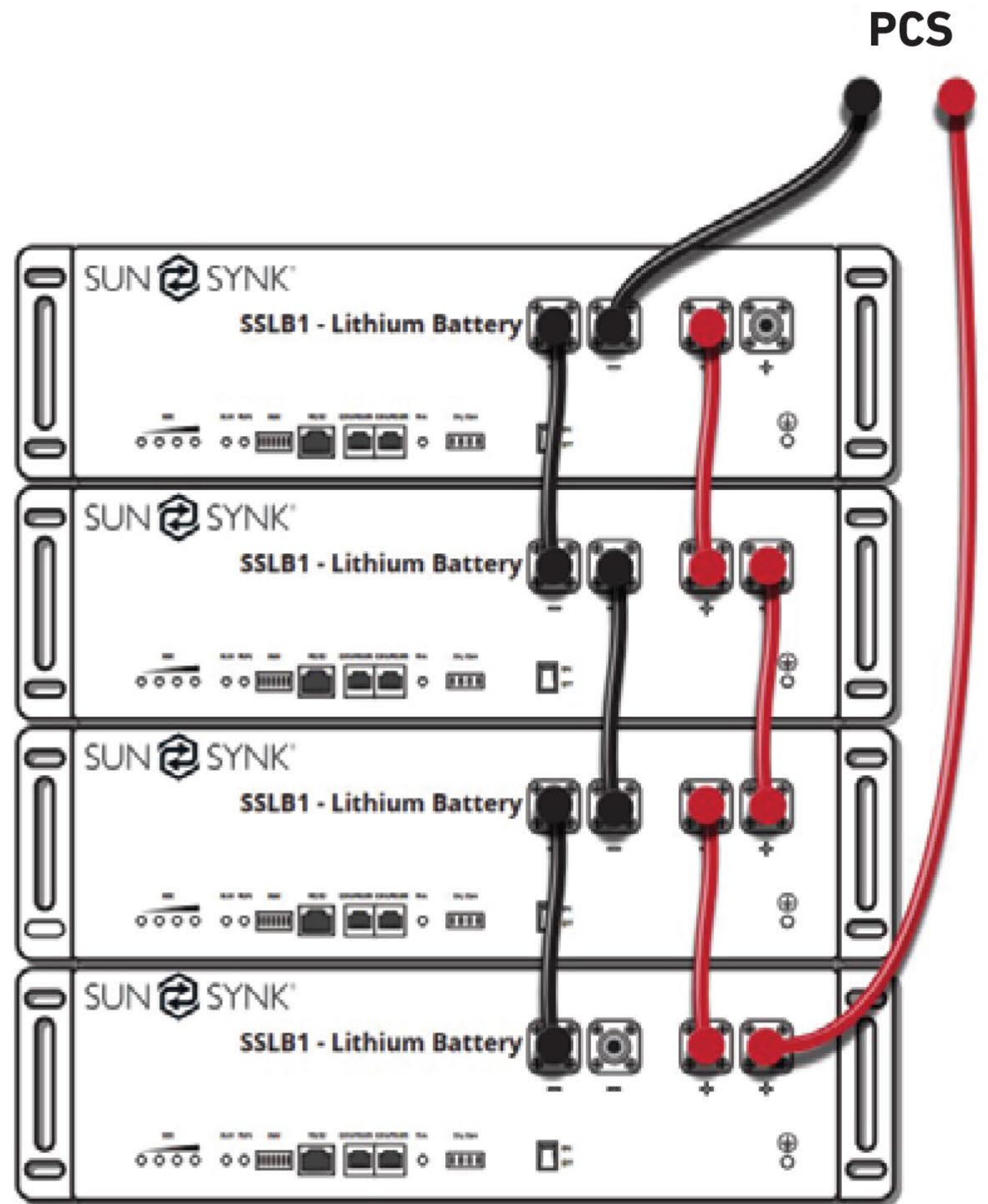
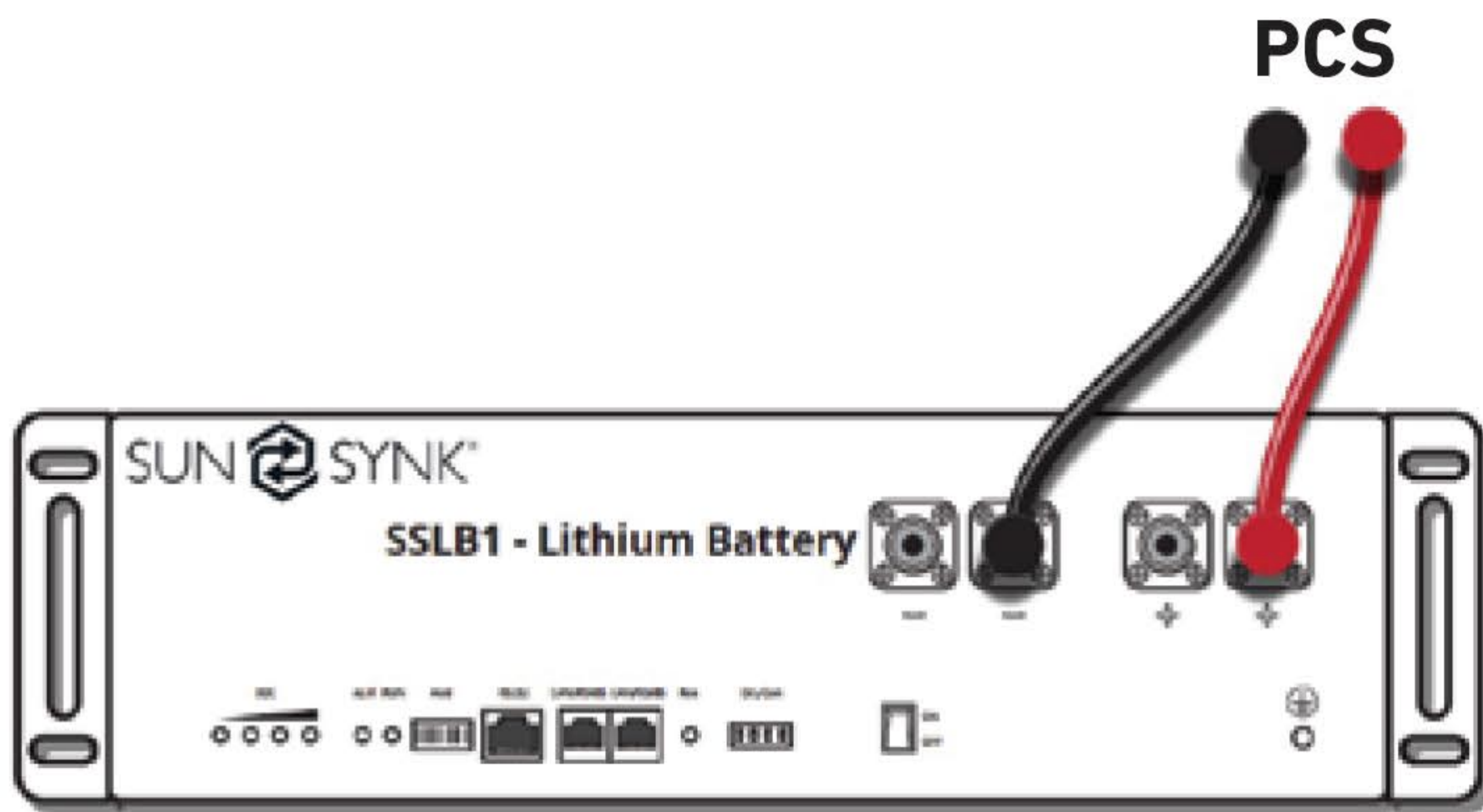
Modular stack  
Parallel mode  
(Up to 4 units)



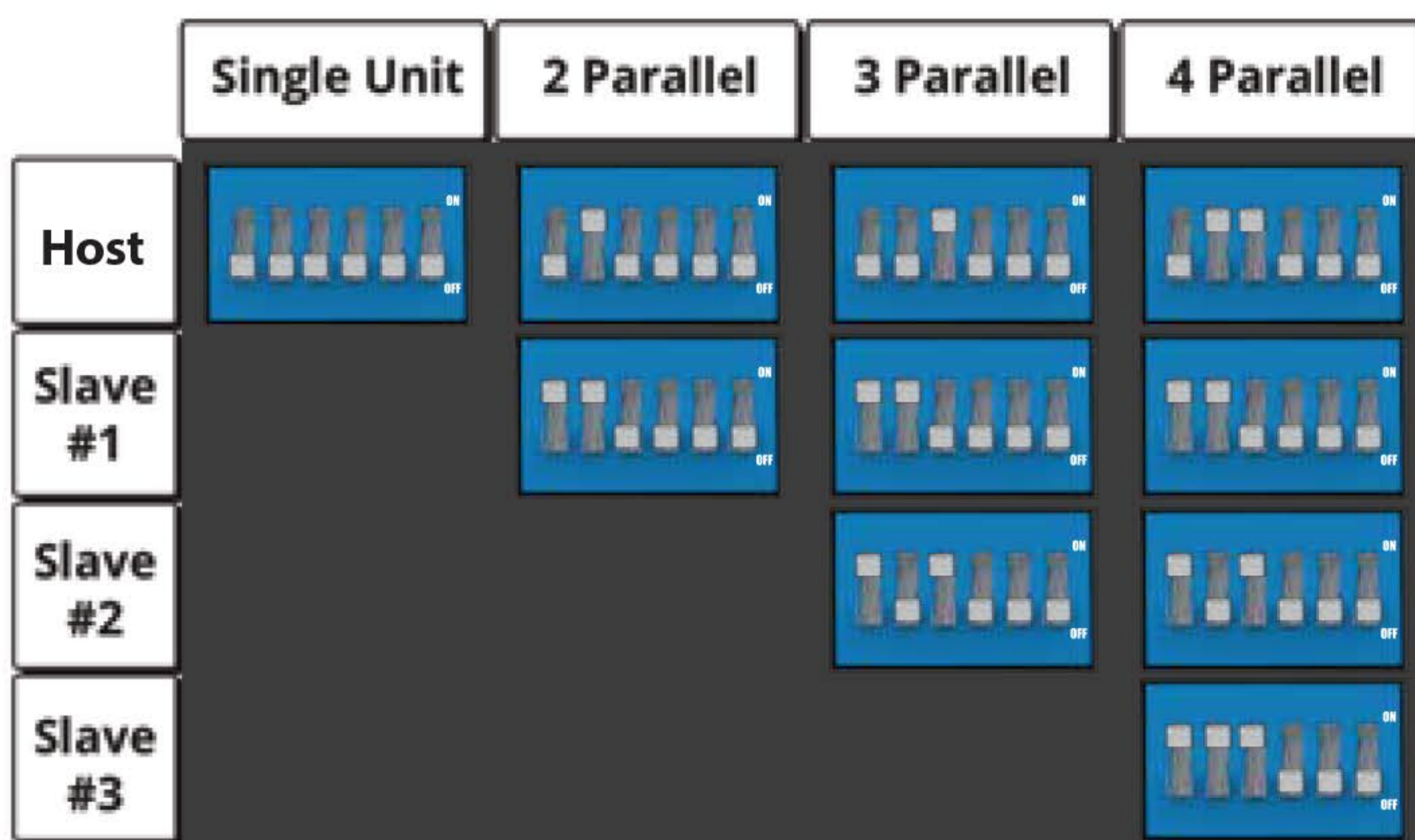
Modular clamps  
FSBSKFIC



## Basic connection



## Dip-switch settings



## Communication Connections

