EndurEnergy Systems, Inc.

- Project and Sales
- <u>sales@endurenergy.com</u>
 - Technical/Engineering
- <u>support@endurenergy.com</u>
 - www.endurenergy.com
- +1 888 E2-ENDUR (323 6387)
- We welcome all questions, comments, and suggestions

Installation Overview

- Identifying your inventory
 - What's in the Box
 - Install Manual
- Install per your design
 - Allocate your space
 - Cable management
 - Denoting your install
 - Dips and Switches
 - Functional test

	Installation Guidance Output Ou	ESP-5100
Battery*1	Cardboard*1	User Manual
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Warranty	Battery link*2	Data Cable*1



What's in the box

- Enclosures supplied with:
 - 1 to 2 sets of battery cables (w/lug adapters)
 - Installation Manual
 - Mounting hardware
 - Data cables (RJ-45), recommended Cat 6 (Shielded)
- All Batteries are supplied with an Installation manual
 - Technical Specs
 - Installation Instructional
 - Dip and Switch settings

Enclosures

Denote and measure to your needs, understand the need for customized cable lengths

Installation hardware for battery and surface mounting





ESP-5100 Battery

- Power Button (Hold 3 Secs)
- SW2 & SW3 (Main) concerning installation
- 2 x Positive (Red) & 2 x Negative (Black)
- 2 x M/S Data Ports, 1 Inverter Data port
- WIFI Antennae

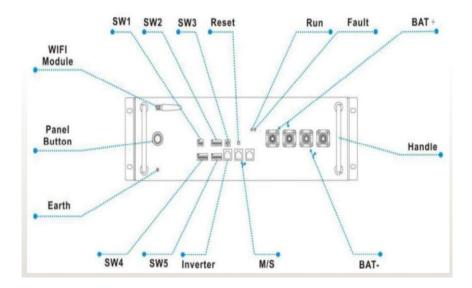
Basic Installation

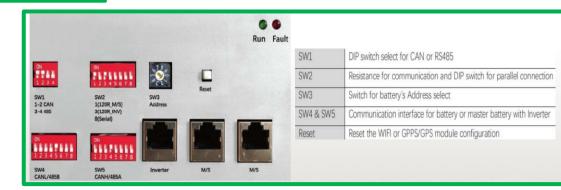
- Positive to Positive, Negative to Negative (Dependent on enclosure and kWh battery solution)
- SW2 = Master/Slave number
- 2 x Positive (Red) & 2 x Negative (Black)
- 2 x M/S Data Ports, 1 Inverter Data port
- WIFI Antenna

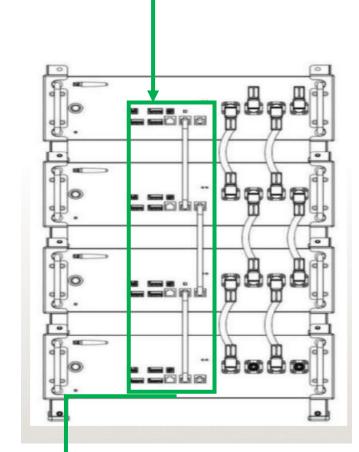


Basic Installation

Connected battery number	Group	Set of SW2		Address Set
		Series connect	Parallel connect	(SW3)
1	_	ON 1 2 3 4 5 6 7 8 13	ON 1 2 3 4 5 6 7 8	.3 1
2	Master	ON 12345678 138	ON	.3 2
	Slave	ON 1 2 3 4 5 6 7 8 18	ON 1 2 3 4 5 6 7 8	1
3 SI	Master	ON 1 2 3 4 5 6 7 8 138	ON	.3 3
	Slave 1	0N	0N	1
	Slave 2	ON 1 2 3 4 5 6 7 8 18	ON	2
4	Master	ON 1 2 3 4 5 6 7 8 138	ON	.3 4
	Slave 1	0N	ON	1
	Slave 2	0N	0N	2
	Slave 3	18	ON SECTION 1	3







Product Features

ESP-5100

1. Support big power whole home backup

- 0.7C rating.
- 1C continuous application supported.

Competition: 0.5C

3. Safety & Quality

- Only grade 'A' LiFePO4 cells.
- 100% End-Of-Line battery testing.
- Very low self discharge rate in storage.

Competition: Various grade cells. Up to 20% random EOL testing. Recharge at the end of 6 months in storage.

2. Superior "effective" capacity

- 6000 cycles at 90% DOD.
- 10 years warranty \geq 70% capacity remaining.

Competition: 6000 cycles at 80% DoD, 2000 cycles at 100% DoD

4. Proprietary Battery Management System (BMS):

- Active balancing: improve "effective" capacity by 20%
- Monitor and protection with proprietary algorithm.

Competition: passive balancing.

Product Features



5. Remote firmware update

• BMS firmware updated remotely.

6. Versatility

One SKU operation in series (400+ v) or in parallel (50 v).

Competition: can only do series or parallel, not both

7. Data and Cyber security

- All data in AWS.
- Control and communication by workstation in the US.

Competition: data, control and communication location not clear

8. Support

• 7 Days a week technical support provided by Sol-Ark in the US.

Competition: only workdays. Some support from overseas