V5° UL9540A 1C Battery

- More Powerful
- Smarter
- More Adaptable
- More Scalable

Pytes
Power a Better Life

Overview

Pytes

Part 1 Introduction

Features

⬈ **Higher Charge/Discharge Rate**

⚡ **Higher Energy Density**

⬍ **Wider Operation Temperature**

❄ **Greater scalability**

📺 **Remote Monitoring and Upgrading**

Certification

UL1973
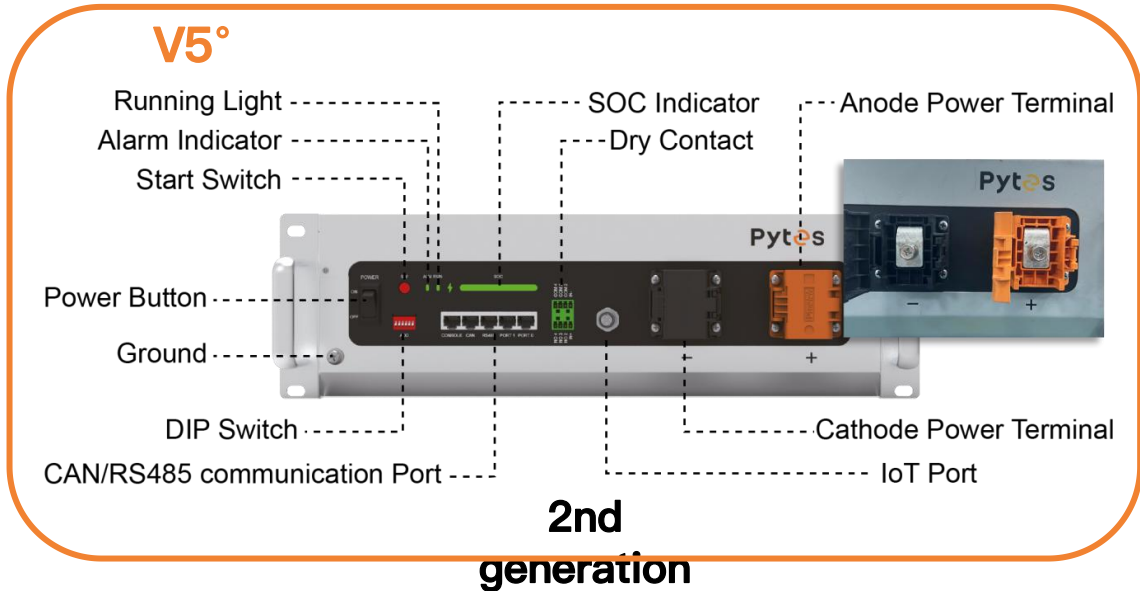**UL9540A, UL9540（with Solark）**
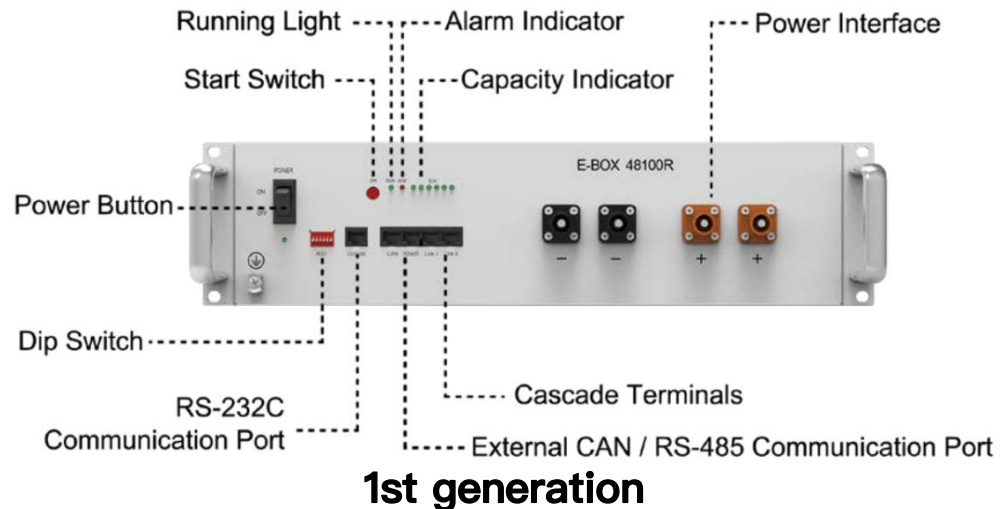**CEC, SGIP(on–going)**

Specifications

Electrical

Nominal Voltage	51.2V
Voltage Range	47.5V~57.6V
Nominal Energy	5.12kWh
Nominal Capacity	100Ah
Recommended Charge/ Discharge Current	75A
Maximum Charge/ Discharge Current	100A
Peak Discharge Current	101A~120A(3min) ; 121A~180A(15sec)

General

Chemistry	LFP
Communication Protocol	CAN/RS485
Dimensions (L*W*H)	17.32*20.87*5.51 inch (3.2U)
Weight	97lbs
Ambient Temperature	14ºF~131ºF
Round–Trip Efficiency	≥95%
Cycle Life	6000cycle
Warranty	10 Years

Pyt⊖s

V5°

2nd generation

Running Light
Alarm Indicator
Start Switch
Power Button
Ground
DIP Switch
CAN/RS485 communication Port

SOC Indicator
Dry Contact
Anode Power Terminal

Cathode Power Terminal
IoT Port

E–BOX–48100R

1st generation

Running Light
Start Switch
Power Button
Dip Switch
RS-232C Communication Port

Alarm Indicator
Capacity Indicator
Power Interface

Cascade Terminals
External CAN / RS-485 Communication Port

E-BOX 48100R

✓ **Precise SOC Display**

✓ **IoT Interface for remote monitoring device**

✓ **Phoenix terminals with higher ampacity**

✓ **More refined appearance**

✓ **Smaller size and lighter weight – CCS**

✓ **Dry contact for function expansion**

✓ 48V battery – 5.12kWh capacity

✓ CAN/RS485 communication port

✓ Console port for debugging

✓ 10 years warranty

Pytes

Serial Number	Name	Specification	Quantity
110402100025	V5° Battery	51.2V 100Ah LFP Battery	1
150211100156	Copper Busbars Connector	V5°–TMR–190*25*18mm*Nickelage*Silver	2
161412101043	Communication Cable C350	CAT6 Shielded Twisted Pair 8–Core Cord–350mm–Blue–RJ45 Connector*2	1
161412100230	1m Ground Cable	Green/1015–10AWG/1m/TL6–6*2	1
161508100019	Registered Jack	RJ45	2

Serial Number	Name	Specification
161412100461	0000AWG Power Cable	UL10269––4/0AWG––2000mm—DTF120–10*2
161412100465	00AWG Power Cable	UL10269––2/0AWG––2000mm—SC70–10*2
161412101043	0AWG Power Cable	UL10269––1/0AWG––2000mm––SC50–6/SC50–10
161412101071	Communication Cables 3500mm	Compatible with：Sol Ark, Megarevo, Luxpower, Growatt, APSystems, SMA, Studer
110409100001	Hub	Enables communication with multiple groups of batteries
161506100003	300A Busbar	300A/6*M5+2*M10 Terminals
110409100027	600A Busbar	600A/6*M10+2*M8 Terminals
	Smart Monitor	

Pytes

Part 2 Features

Feature Higher Charge/Discharge Rate

Pytes

Charge Specifications

Recommended Charge Current	75A
Maximum Charge Current	100A
Recommended Discharge Current	75A
Maximum Discharge Current	100A
Peak Discharge Current	101~120A (3min)
Peak Discharge Current	121~180A(15sec)

Multiple Protection

BMS	Over Current Alarm	
	Short Current Protection	
FUSE	320A	

Sol-Ark
LIMITLESS POWER

12K

✓ **Up to 250A Ampacity**
✓ **Safety Cover**
✓ **Bolt Fixing Method**
✓ **Flexible connection**

Pytes

Operation

Start heating –– Min Cell temperature < 41℉

Stop heating –– Min Cell temperature > 50℉

Never heating –– Min Cell temperature < –4℉

Alarm

- ➢ No temperature change –– 30 min

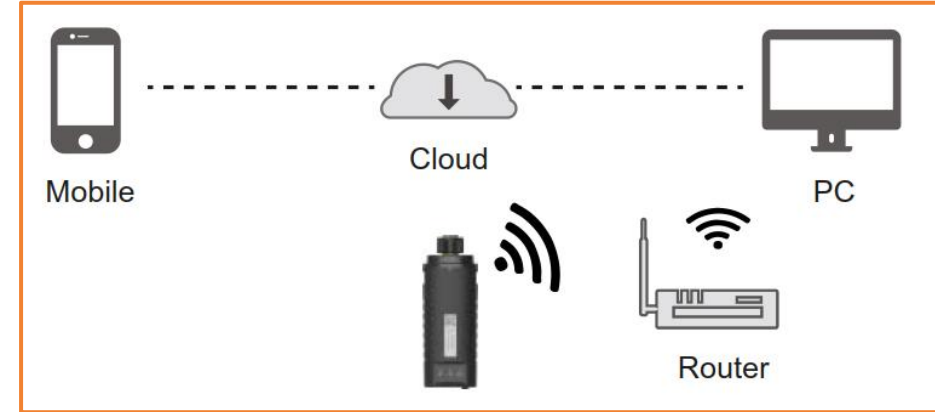- ➢ Work in non–heating state –– 15 min

Protection

- ➢ Long running –– 3h

- ➢ Frequent starts and stops –– 5 times/1h
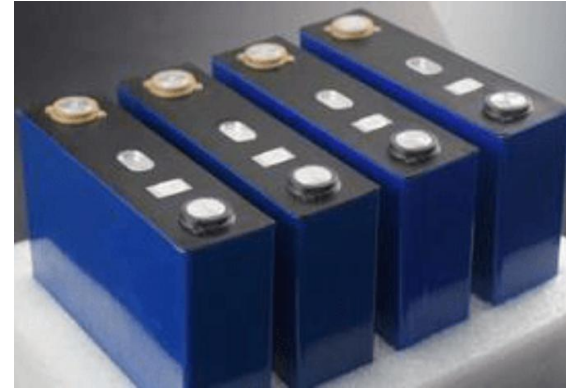
Heating System

- ✓ Keep the Battery Working in the Optimal Temperature Range

- ✓ Wider Battery Operating Temperature Range

- ✓ Multiple Protections –– Software & Hardware

- ✓ Low Power Consumption — 170W

- ✓ Over 10 Years Design Life

WEB/APP

✓ **Real-time Monitoring**   ✓ **Data**

✓ **Remote Upgrading**   **Visualization**

✓ **Alarm Notification**   ✓ **Error Detection**

Pytes

Power button   RS232   RS485   Interfaces   Grand

DIP Switch   CAN   Link Port   DC input   Indicator light

Max 14pcs in one group(without hub)
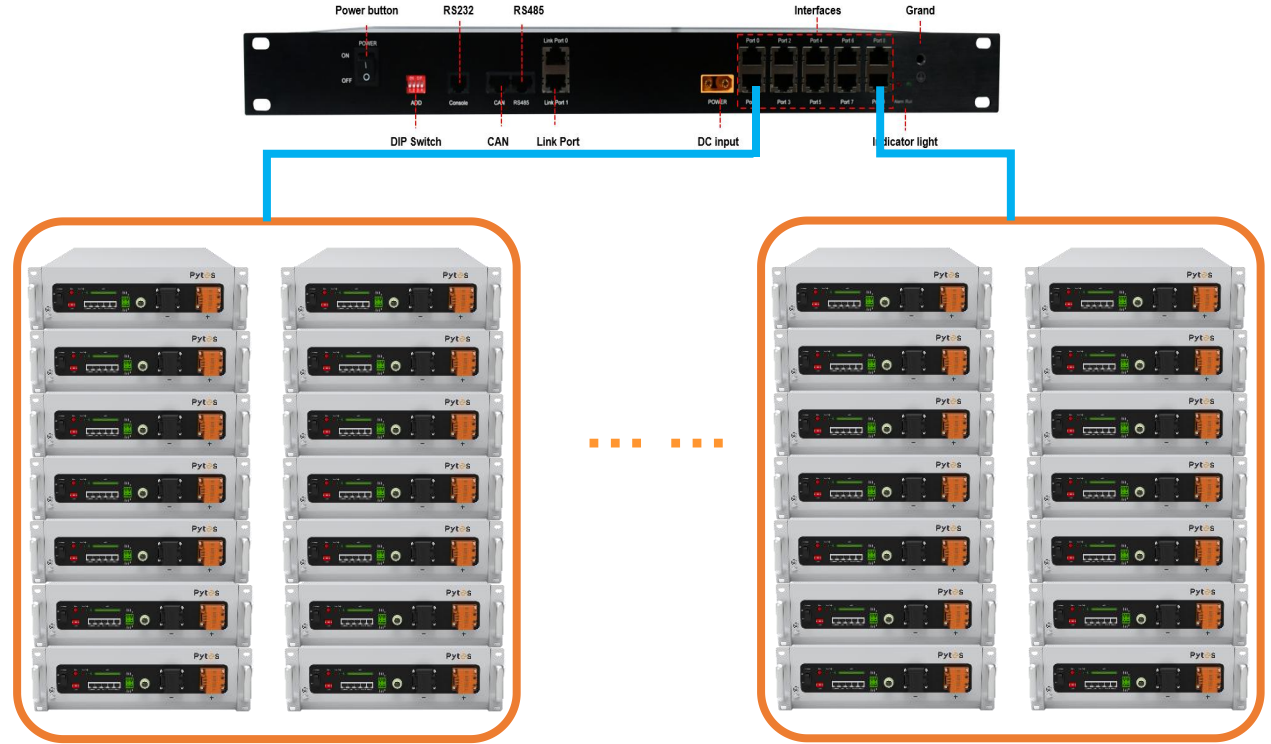
Max 6 groups(with hub)

84pcs(430kWh) in total

CCS (Cell Contact System)

It is mainly composed of signal acquisition components (FPC/PCB/FFC, etc.), plastic structural parts, copper and aluminum bars, etc., to realize high-voltage series-parallel connection of batteries, as well as battery temperature sampling and battery voltage sampling functions, through FPC/PCB and connectors. The components provide temperature and voltage to the BMS system and are part of the BMS system.

Advantages

✓ High Reliability

✓ Highly Integrated

✓ High Energy Density

✓ High Security

Conductive Sheet

Insulating Film
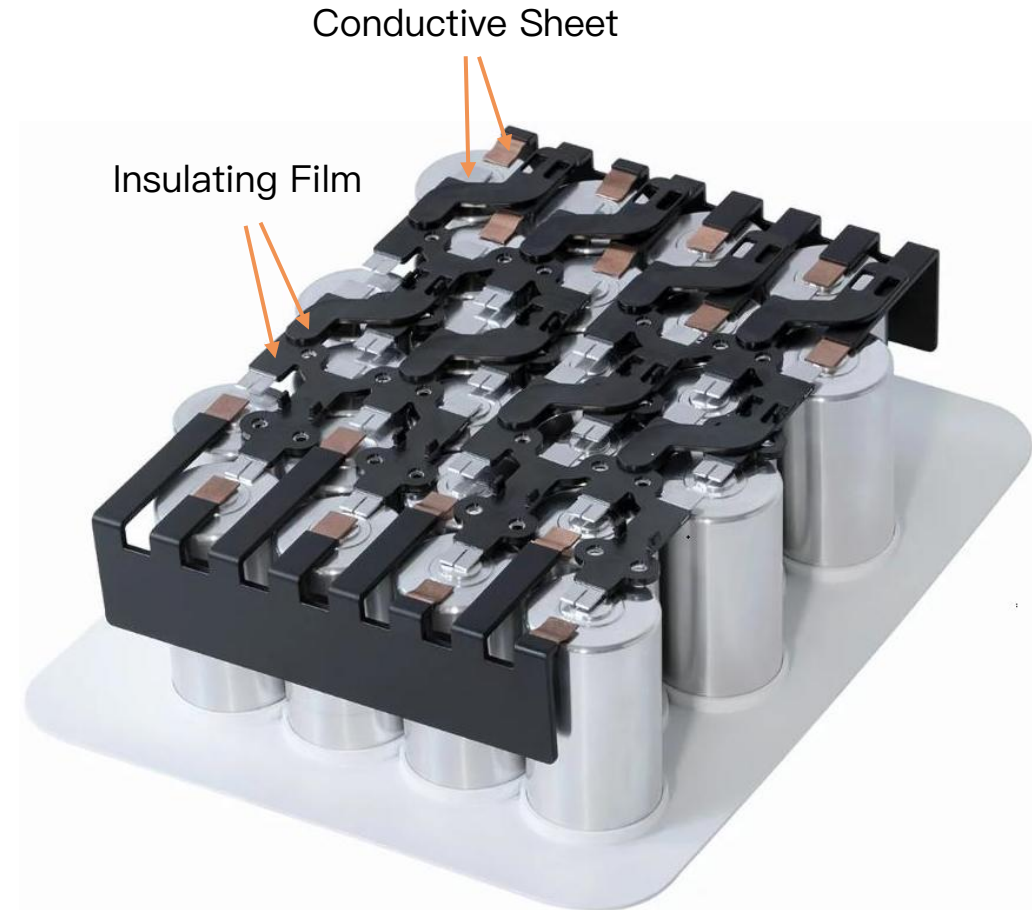
Indoor

Outdoor IP55

Bracket–V5° (Up to 4pcs)

R–BOX–IC(Up to 6pcs)

V–BOX–OC (Up to 4pcs)

Compatibility Inverter List

✓ The same communication protocol with E–BOX–48100R

✓ Similar protection and control logic with E–BOX–48100R

Part 3 Pricing

Pytes

V5°

V5-Brackets

V5-BOX-OC

Pre-order MAP：
$2150USD/pcs

MAP：
$53USD/pcs

MAP： $1485USD/pcs

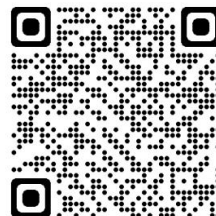# Part 4 Q&A

Pytes

Thank you !

PYTES (USA) ENERGY, INC

Address: 920 S Holgate St, STE 106, Seattle, Washington,98134 USA Site:
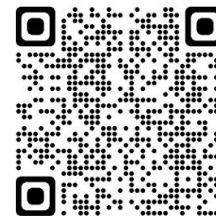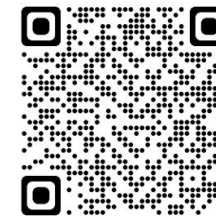www.pytesusa.com
Email: pytesusa@pytesgroup.com

More Catalogs
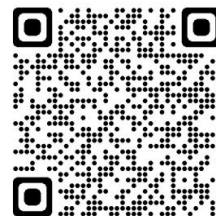
LinkedIn

Facebook

YouTube

www.pytesusa.com