



LI-ION BATTERY FOR ENERGY STORAGE

BATTERY EXPERT-GREEN ENERGY PROVIDER



Creating
Undertaking
Sharing

MILESTONES

PACK Sector

• LEV
• Consumer sector

Formally
Established

State Certificate
High-tech
enterprise

Shandong Factory
Production Capacity
Doubled

Entered ESS
Market



Top 3 in EU&USA
LEV Market

Vietnam Factory

EU & USA Offices



Awarded

Shanghai "Professional
and Innovative
Enterprise"

Renamed
to Pytes

Completed
Shareholding
System Reform

\$ 150M
Annual Revenue

\$ 118M

Total Assets
1000+

Employees

4 GWh

Annual Capacity

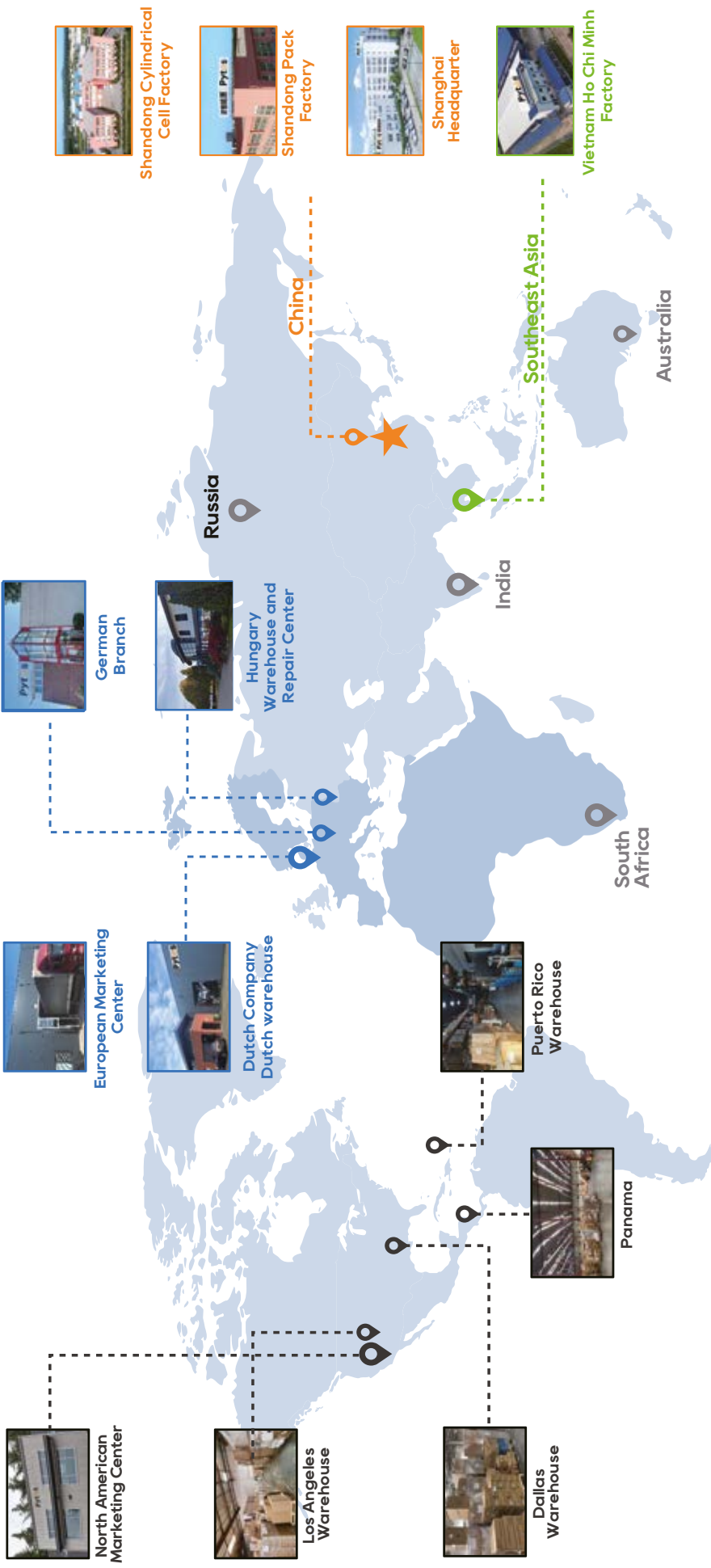


Pytes

As a leading lithium battery solution provider, Pytes is committed to providing energy storage solutions. Started in 2004, with continuous support and technical experience, more than 1,000 Pytes employees are now working to build a greener future.

Grasping the general trend of globalization, Pytes not only has multiple production bases in China, but also runs branches, offices and factories in North America, Europe, Vietnam and other sites to achieve multi-regional coverage of the service network, with faster delivery and quicker response.

Creating, Undertaking, Sharing, we practice our philosophy and fulfill the mission that to deliver safe, reliable and affordable clean energy to home and community for a more carbon-free future.



Glocalization service

- ✓ Hundreds of localization service teams
- ✓ 7*24H, fast feedback
- ✓ Digital after-sales service platform (CSS)

- **Shanghai PYTES Energy Co., Ltd.**

Address: No.3492, Jinqian Road, Fengxian DTS, Shanghai, China
TEL: +86 (21) 5747 5852

- **PYTES B.V.**

Address: Molendijk-Zuid 23B, 5482 WZ Schijndel, Netherlands
TEL: +31 (0) 625 560 152

- **Shandong Pytes New Energy Technology Co., Ltd.**

Address: Bld.1 High Tech Industrial Park, No.36 East Dongfeng Rd, Huishan Economic Development Zone, Jining, Shandong China
TEL: +86 (537) 866 6008

- **PYTES (USA) Energy, Inc**

Address: 13921 Senlac Dr, Suite 100 Farmers Branch TX, 75234, USA
TEL: +1 (626) 764 3692

- **PYTES Vietnam**

Address: Lot B201A, DH Street, Thai Hoa Industrial Park, Duc Hoa Ha Commune, Duc Hoa, DST, Long An Province, Vietnam
TEL: +84 (272) 381 9993

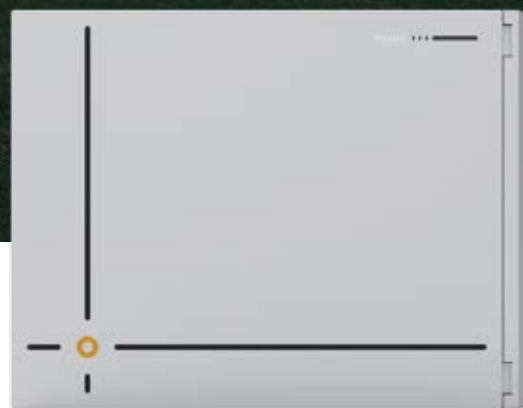
- **Shandong PYTES Electronics Co., Ltd.**

Address: Bld.2 High Tech Industrial Park, No.36 East Dongfeng Rd, Huishan Economic Development Zone, Jining, Shandong China
TEL: +86 (537) 866 6001



V 10

Wall Mounted LFP Battery



Features



Enhanced Safety

- Pre-charge Circuit Integrated
- Emergency Shutdown with 2P Battery Breaker
- Built-in Fire Fighting System



Higher Energy Density

- Tier 1 Automotive Grade 230Ah Cells
- Lighter and More Compact for Given Capacity



High Power Output

- 5.12kW Nominated Output Power



The All Weather Battery

- C4M Certified Anti-Corrosion
- IP66 Rated Water & Dust Proof
- Heating Pad Integrated



Smart

- Remote Monitoring and Upgrading



Installer Friendly

- Wall or Ground Mounted
- Effortless Installation and Quick Commissioning

V10 Specs

Electrical

Nominal Voltage	51.2V
Operating Voltage Range	47.5~57.6V
Nominal Capacity	230Ah
Nominal Energy	11.776kWh
Usable Energy	10.24kWh
Recommended Charge/	100A(5.12kW)
Discharge Current	
Peak Discharge Current	300A@15s

General

Chemistry	LFP
Structure	DC Breaker & Pre-Charge Circuit Integrated
Communication Interface	RS485 / CAN / WIFI / Dry Contact
Dimensions(L x W x H)	640 x 230 x 520mm / 25.20 x 9.06 x 20.47inch
Weight	100kg / 220.5lbs
Operating Temperature	Charge: 0~55°C / 32~131°F Discharge: -20~55°C / -4~131°F
Cycle Life*	8000 Cycles
Altitude	<13123.35ft / 4000m
Warranty	10 Years Basic Warranty Fee Based Extra 2 Years Coverage
Ingress Protection	IP66
Corrosion Resistance Class	C4M
Mounting Method	Wall / Ground (W/ Optional Battery Tray)
Heating Pad (Integrated)	Temperature Rise: 8°C/h / 14.4°F/h

*Test Conditions: 25°C, 0.5C/0.5C, 90% DoD, 70% EOL.

Certifications

UL 9540, UL 9540A, UL 1973, CEC, SGIP, IEC62619, CE, UN38.3

V5° / V5°α / V5°α plus



Features



Remote Monitoring and Upgrading

- Built-in WiFi



Wider Operation Temperature

- Heating Pad Integrated



Emergency Shutdown

- Upgrade with BatteryBreaker (V5°α Plus)



Powerful

- 3.84kW Nominal Output Power



Scalable

- Up to 491.52kWh Parallel Connection



Flexible Installation Options

- Compatible with Multi Enclosures & Brackets

V5° / V5°α / V5°α Plus Specs

	V5°	V5°α	V5°α plus
Electrical			
Nominal Voltage		51.2V	
Voltage Range		47.5V~57.6V	
Nominal Capacity		100Ah	
Nominal Energy		5.12kWh	
Recommended Charge /Discharge Current ^[1]		75A	
Peak Charge /Discharge Current		101A~120A(3min); 121A~180A(15sec)	101A~120A(3min); 121A~200A(15sec)
Integrated Breaker			DC 125V/125A

[1], [2]: The recommended and Max continuous charge and discharge current is for a battery cell temperature within 10°C~40°C(50°F~104°F) to consider. It will result in a derating on current if out of the temperature range.

General

Power Terminal	PHOENIX M6 Bolt	Amphenol Surlok Plus 8.0mm
Chemistry	LFP	
External Communication Protocol	CAN / RS485 / Dry Contact / WiFi(Optional Dongle)	
Dimensions (L x W x H)	442 x 530 x 140 mm (3.2U) / 17.4 x 20.87 x 5.51 inch (3.2U)	484 x 578.2 x 140 mm (3.2U) / 19.05 x 22.76 x 5.51 inch (3.2U)
Weight	44 kg / 97 lbs	45.34 kg / 100 lbs
Ambient Temperature	-10°C~50°C/14°F~122°F	
Round-Trip Efficiency	≥95%	
Cycle Life	≥6000 Cycles	
Warranty	10 Years	
Add-on Functionalities		
Heating Pad	Temperature Rise: 10°C/h/18°F/h Operation Temperature: -18°C~15°C/-0.4°F~59°F	
Scalability	16 pcs (81.92kWh) in a group 6 groups (491.52kWh) in a system w / a Hub	

Certifications

UL9540 Ed.2 (2020), UL9540A, UL1973, CEC, SGIP, CE, IEC62619, UN38.3

V5° Compatible Bracket/Cabinet



V5 BK1

Wall Mounted

Load Capacity: 1×V5° / V5°α / V5°α Plus

Dimensions(W×D×H):

27×92×145mm / 1.06×3.62×5.71inch(Upper bracket)

48×50×60mm / 1.89×1.97×2.36inch

(Lower auxiliary bracket)

Weight: 0.586kg / 1.29lbs



V5 BK2

Wall Mounted

Load Capacity: 2×V5° / V5°α / V5°α Plus

Dimensions(W×D×H):

27×187×291mm / 1.06×7.36×11.46inch(Upper bracket)

53×50×60mm / 2.09×1.97×2.36inch(Lower Bracket)

Connection Board Dimensions(W×H×D):

27.5×60×100mm / 1.08×2.36×3.94inch

Weight: 2.09kg / 4.61lbs



V5° Bracket

Floor Mounted

Load Capacity: 1×V5° / V5°α / V5°α Plus

Up to 6pcs per Stack

Dimensions(W×D×H):

50×177.8×62.2mm / 1.97×7×2.45inch

Weight: 1.44kg / 3.2lbs



V-BOX-IC

Floor Mounted

Load Capacity: 3×V5° / V5°α

Dimensions(W×D×H):

533×616×650mm / 21.0×24.3×25.6inch

Weight: 42.2kg / 93lbs

Enclosure Rating: IP20



V-BOX-IC SE

Floor Mounted

Load Capacity: 3×V5° / V5°α

Dimensions(W×D×H):

533×565×660mm / 21.0×22.2×26.0inch

Weight: 27.7kg / 61.1lbs



V-BOX-NEMA3

Wall / Floor Mounted

Load Capacity: 2×V5° / V5°α

Dimensions(W×D×H):

521.5×430.9×647.4mm / 20.5×17.0×25.5inch

Weight: 29.5kg / 65.04lbs

Enclosure Rating: NEMA3



V-Box-OC(IV)

Floor Mounted

Load Capacity: 4×V5° / V5°α

Dimensions(W×D×H):

645.16×396.24×1394.46mm / 25.4×15.6×54.9inch

Weight: 194lbs

Enclosure Rating: IP55



VR-BOX-IC

Wall Mounted

Load Capacity:

2×V5° / V5°α / V5°α Plus / E-BOX 48100R

Dimensions(W×D×H):

681×341×851mm / 26.8×13.4×33.5inch

Weight: 35.3kg / 77.8lbs

Enclosure Rating: IP20

Pi LV1

Stackable LFP Battery System



Features



Safe

- LFP Chemistry, Field-Proven BMS Integrated in Individual Module, DC Breaker & Fuse Adapted



Scalable on Demand

- Flexible Configuration from 5.12 to 30.72 kWh per Stack, Up to 4 Stacks



Powerful

- Up to 10.24kW Continuous Output



Outdoor Rated Enclosure

- Water & Dust proof for Both Indoor and Outdoor



Plug-and-play (15-min installation)

- Quick Connectors, Hand-wiring Free



Smart

- Remote Upgrading & Monitoring





Pi LV1 Specs

Battery Module Unit:

Cell Type	LFP
Nominal Energy	5.12kWh
Nominal Voltage	51.2V
Voltage Range	47.5V~56.8V
Nominal Capacity	100Ah
Recommended Continuous Discharge Current	50A
Recommended Continuous Charge Current	50A
Certifications	UL9540 Ed.2 (2020), UL9540A, UL1973, CEC, SGIP, CE, IEC62619, UN38.3



Model	1	2	3	4	5	6
Cell Type	LFP					
Nominal Voltage	51.2V					
Voltage Range	47.5V~56.8V					
Nominal Energy	5.12kWh	10.24kWh	15.36 kWh	20.48 kWh	25.6 kWh	30.72 kWh
Recommended Power	2.56kW	5.12kW	7.68kW	10.24kW	10.24kW	10.24kW
	681 x 242 x 540 26.8 x 9.5 x 21.3	681 x 242 x 800 26.8 x 9.5 x 31.5	681 x 242 x 1060 26.8 x 9.5 x 41.7	681 x 242 x 1320 26.8 x 9.5 x 52.0	681 x 242 x 1580 26.8 x 9.5 x 62.2	681 x 242 x 1840 26.8 x 9.5 x 72.4
Weight(kg/lbs)	71.7/158.1	125/275.6	178.3/393.1	231.6/510.6	284.9/628.1	338.2/745.6
Efficiency	≥95%					
Communication	CAN, RS485, WIFI, Dry Contact					
WiFi Module	Wifi frequency range:2412-2472MHz Wifi Max. transmission power<20dBm Bluetooth frequency range: 2402-2480MHz Bluetooth Max. transmission power<4dBm					
Cycle Life	≥6000Cycles					
Protection level	IP55					
Ambient Temperature	Charge: 0°C ~ 45°C / 32°F ~113°F Discharge: -10°C~50°C / 14°F~122°F					
Storage Temperature	Within 1 month: -20°C~50°C / -4°F~122°F 1~3 months: -10°C~40°C /14°F~104°F 3~12 months: 0°C~30°C /32°F~86°F					
BCU						
BMU						

[1]: 4 models parallel in Pi LV1 is Recommended. [2]: @25°C, 0.5C Charging/Discharging, 90% DoD

E-BOX 48100R



Features



Scalable

- From 5.12kWh to 491.52kWh



Compact, Flexible and Easy Install



Long-lasting

- ≥ 6000 Cycles @ 90% DoD



Safe & Reliable

- Tier 1 Automotive Grade A LiFePO4 cells
- Self-designed & Field-proven BMS



E-BOX 48100R Specs

Electrical

Nominal Voltage	51.2V
Voltage Range	47.5V~57.6V
Nominal Capacity	100Ah
Nominal Energy	5.12kWh
Recommended Charge/ Discharge Current	50A (2.56kW dc)
Maximum Charge/ Discharge Current	50A (2.56kW dc)
Peak Discharge Current	102A (5.22kW@15s)

General

Chemistry	LFP
Communication Protocol	CAN/RS485
Dimensions (L x W x H)	440 x 620 x 117mm (2.6U) / 17.3 x 24.4 x 4.6 inch (2.6U)
Weight	51 kg / 112.5 lbs
Ambient Temperature	-10°C~50°C / 14°F~122°F
Round-Trip Efficiency	≥95%
Cycle Life*	≥6000Cycles
Warranty	10 Years

* Test Condition 0.5C, 25°C @90%DoD

Certifications

UL9540 Ed.2 (2020), UL9540A, UL1973, CEC, SGIP, CE, IEC62619, UN38.3

E-BOX 48100R Compatible Bracket/Cabinet



Forest RB Plus

Floor Mounted

Load Capacity: 6×E-BOX 48100R

Dimensions(W×D×H):

720×400×1150 mm / 28.3×15.7×45.3inch

Weight: 20kg / 44.1lbs

Enclosure Rating: IP20



R Bracket

Floor Mounted

Load Capacity: 8×E-BOX 48100R

Dimensions(W×D×H):

530×720×135mm / 20.9×28.4×5.3inch

Weight: 8kg / 17.64lbs



E BK1

Floor Mounted

Load Capacity: 1×E-BOX 48100R

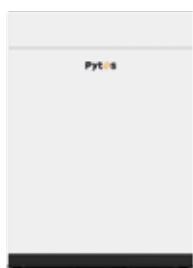
Up to 6pcs Stackable

Dimensions(W×D×H):

78.5×40×161.5mm / 3.09×1.57×6.36inch (Front Bracket)

62.2×76×155mm / 2.45×2.998×6.10inch(Rear Bracket)

Weight: 3.64lbs / 1.65kg



R-BOX

Wall / Floor Mounted

Load Capacity: 2×E-BOX 48100R

Dimensions(W×D×H):

279.4×510.54×698.5mm / 11.0×20.1×27.5inch

Weight: 37.5lbs

Enclosure Rating: IP20



R-BOX-NEMA3

Wall / Floor Mounted

Load Capacity: 2×E-BOX 48100R

Dimensions(W×D×H):

530.0×400.3×734.7mm / 21.0×15.7×28.9inch

Weight: 27.7kg / 61.06lbs

Enclosure Rating: NEMA3



R-BOX-OC

Floor Mounted

Load Capacity: 4×E-BOX 48100R

Dimensions(W×D×H):

800×330×1575mm / 31.5×13.0×62.0inch

Weight: 80kg / 176.4lbs

Enclosure Rating: IP55



VR-BOX-IC

Wall Mounted

Load Capacity:

2×V5° / V5°α / V5°α Plus / E-BOX 48100R

Dimensions(W×D×H):

681×341×851mm / 26.8×13.4×33.5inch

Weight: 35.3kg / 77.8lbs

Enclosure Rating: IP20

V15



Features



Safe

- LFP Chemistry, Tier 1 Automotive Cells & Field-Proven BMS
- Emergency Shutdown



Powerful

- 7.17kW Powerful Output,
- 14.34kWh High Capacity



Smart

- Remote Upgrading & Monitoring



Elegant

- Sleek and Minimalist Design with Clean Lines, Featuring Hidden Interface



Wide Compatibility Range

- Closed-Loop Compatible with Over 20+ Inverters



Easy To Install

- Wheelable & Less Wiring
- One Battery for the Whole Family

V15 Specs

Electrical

Nominal Voltage	51.2V
Voltage Range	47.5V~57.6V
Nominal Capacity	280Ah
Nominal Energy	14.34kWh
Recommended Charge/ Discharge Current	140A (7.17kW)
Maximum Charge/ Discharge Current	200A (10.24kW@180s)
Peak Discharge Current	300A(@15.36kW@15s)
Battery Breaker	DC 250V 250A

General

Chemistry	LFP
Communication Protocol	RS485 / CAN / Dry Contact / Wifi
Dimensions (W x H x D)	282 x 727 x 730 mm / 11.10 x 28.62 x 28.74 inch
Weight	135kg / 297.6lbs
Operating Temperature	Charge: 0°C~ 55°C / 32° F~131° F Discharge: -20°C~ 55°C / -4° F~131° F
Cycle Life	6000 Cycles @0.5C / 0.5C, 25°C / 77°F 90% DoD
Ingress Protection	IP21
Altitude	<4000m
Warranty	10 Years

Dimensions



E-BOX 12100



Features



Powerful

- 1C Discharge Rate, Continuous Output Power



Reliable

- Upgraded BMS
- Heating Pad Integrated for Wider Operation Temperature



Long-lasting

- ≥ 4000 Cycles @ 80% DoD



Scalable

- Easy to Expand Up to 19.2kWh, Maximum 2 in Series per 8 in Parallel



Smart

- Remote Monitoring & Upgrading



Wide Applicability

- High Protection Level Enriches More Applications

E-BOX 12100 Specs

Electrical

Nominal Capacity	100Ah
Nominal Voltage	12.8V
Voltage Range	10.8V~14.4V
Maximum Continuous Charging Current	50A
Maximum Continuous Discharge Current	100A
Cycle Life	4000Cycles (@80%DoD)

Environment

Working Temperature	-10°C~55°C / 14°F~131°F
Storage Temperature	Within 1 month: -20°C~55°C / -4°F~131°F, 1-3 months: 0°C~35°C / 32°F~95°F, 3-12 months: 20°C~25°C / 68°F~77°F
Operating Relative Humidity	0%~95%RH No Condensation

Structure

Dimension (W x D x H)	320 x 166 x 200 mm / 12.6 x 6.5 x 7.9 inch
Weight	15.2 kg / 33.6 lbs
BMS Communication System Connection	RS485 / CAN
Heating	Up to 2S8P Supported

Certification

UN38.3, CE, IEC62619

Warranty

5 Years

HV48100



Features



Safe

- LFP Chemistry
- Smart BMS



Efficiency

- High Voltage System
- Voltage Range 200V~870V

Compatible Cabinets



HV48100 8S

BMU Quantity: 5~8

Dimensions:

600×640×1555mm /

23.6×25.2×61.2inch

Weight: 89.6kg / 197.5lbs

Enclosure Rating: IP20



HV48100 12S

Wall Mounted

BMU Quantity: 9~12

Dimensions:

595 x 680 x 2100mm /

23.4 x 26.8 x 82.7 inch

Weight: 138kg / 304.2lbs

Enclosure Rating: IP20



HV48100 15S

BMU Quantity: 13~15

Dimensions:

1504 x 626 x 1463mm /

59.2 x 24.7 x 57.6 inch

Weight: 126.5kg / 278.9lbs

Enclosure Rating: IP20

HV48100 Specs

HV48100 BCU

Controller Working Voltage	200V~870V
Self-consumption Power	7.56W
Dimensions (W x D x H)	484 x 510 x 140 mm / 19.1 x 20.1 x 5.5 inch
Weight	13.3 kg / 29.3 lbs
Communication	CAN, RS485, Dry Contact, WiFi
Internal Communication	RS232

HV48100 BMU

Cell Type	LFP
Nominal Energy	5.12kWh
Nominal Voltage	51.2V
Nominal Capacity	100Ah
Continuous Discharging/Charging Current	50Adc
Voltage Range	45.5~58V
Depth of Discharge	90%
Series Connection Qty	5~15pcs
Dimensions (W x D x H)	484 x 530 x 140 mm / 19.1 x 20.9 x 5.5 inch
Weight	43 kg / 94.8 lbs
Internal Communication	RS232
External Communication	CAN, RS485
Cycle Life	≥6000Cycles
Operation Temperature	Charge: 0°C~45°C(32°F~113°F), Discharge: -10°C~50°C(14°F~122°F)
Storage Temperature	Within 1month: -20°C~50°C(-4°F~122°F) 1-3months: -10°C~40°C(14°F~104°F) 3-12months: > 0°C~30°C(32°F~86°F)

Certifications

UL9540 Ed.2 (2020), UL9540A, UL1973, CE, IEC62619, UN38.3, CEC

Pi station 186

Air Cooling Outdoor Rated ESS



Features

Flexible

- All-in-one design and highly integrated
- Modular design with different optional parts.

Easy-to-Install

- IP54 rated
- Parallel installation back-to-back

Compatible

- Grid-tied and Off-grid
- 208/400/480Vac 3P4W
- Optional PV input
- Optional backup module

Compliance

- Global grid certified & listed
- Compliance with global safety standards.

Certification

CELL

IEC62619, UL1973, UL1642, UL9540A,
GB/T 36276-2018, GB/T 36276-2023,
IS16046(Part 2):2018, GB, GD22-2019,
2006/66/EC, RoHS, GB/T 30512, UN38.3

Module

GB/T 36276, UL9540A, UN38.3

Unit

GB/T 36276, IEC62619, IEC63056, IEC62477,
IEC62040, CE-EMC, UL1973, UL9540A, UN38.3

PCS

GB/T34120-2017 CE
VDE-AR-N 4105:2018
TOR Erzeuger TypeA V1.2:2022 /
OVE-Richtlinie R 25:2020
DIN VDE 0126-1-1:2013
(with national deviation of France:
DIN VDE 0126-1-1WER 2019)
EN 50549-1:2019+AC:2019-04
NRS 097-2-1:2017 Edition 2.1

Pi station 186 Specs

Module	PI STATION 186
System Specificatoin	
Battery Chemistry	LFP (LiFePO4)
Nominal Output Power	30kVA*n (1~3)
Battery Capacity	186.368kWh
Battery Nominal Voltage	665.6V
Battery Charging and Discharging Voltage Range	200V-750V (350V-750V @full load) (Due to the electrical design different with the 30P module)
Recommended Charging/ Discharging Current	140A
Fire Fighting System	1.Sensor Tube(Aerosol) 2. Water Fire Fighting System 3. Heat/Smoke/Gas sensor 4. Explosion Relief Panel(Optional) or Exhaust & Ventilation System(Optional)
Cycle life	≥ 6000 ^[1] (25°C, 0.5C/0.5C, 70%EOL)
DOD	90%
Warranty	3 Year Product Warranty, 10 Year Battery Warranty
AC Side	
Rated Output Power	30kVA*n (1~3)
Maximum Apparent Power	33kVA*n (1~3)
Maximum Active Power	30kW*n (1~3)
AC power range	30kW (400 Or 800Vac & 350-750Vdc) *n units (n=1,2,3) 15kW (400 Or 480Vac & 150-350Vdc) *n units (n=1,2,3)
AC Voltage Grid-tied	400V(-15%~15%)3P4W+PE/480V(-15%~15%)3P4W+PE
AC Voltage Off-grid	400V(-20%~20%)3P4W+PE/480V(-5%~5%)3P4W+PE
AC Frequency	50Hz/60Hz(-2.5Hz~2.5Hz)
THDi	<3%
PV Side(Optional)	
Max units	2
PV Input Power	45kW*n units (n=1,2) 3 branches *15kW (per 45kW)
PV Input Voltage Range	250V-830V
MPPT Voltage Range	200~750V (430~750V @full load)
Maximum Input Current	65A*n (1~2)
Auto-switching Compatibility(Optional)	
Rated Power	150KVA (AC208V) 300KVA(AC400V) 360KVA (AC480V)
Switching Time	Active Switching: Seamless Passive Switching: 20ms
Communication	
Communication port	RS485/Ethernet
Communication protocol	Modbus TCP/RTU
Mechanical	
Dimensions(W*D*H)	2100*1200*2544.8mm
Weight	2900kg
Cooling System	Forced air cooling for power electronics 5kW Air-conditioned for battery system (pre-installed)
IP protection	IP54
Environmental	
Reactive Humidity	0-95% (No condensing)
Operating Temperature Range	-20°C~55°C (Derating over 45°C)
Altitude	2000m (>2000m derating)

[1] Under specific test conditions

Pi station 230EX

Liquid Cooling Outdoor Rated ESS



Introduction

Pytes liquid cooling battery cabinet integrates battery modules with a full configuration capacity of 232.96kWh. And can be widely used in various application scenarios such as generation and transmission grid, distribution grid, new energy plants.

Features

Flexible

- All-in-one design and highly integrated
- Modular design with different optional parts.

Compatible

- Grid-tied
- 400Vac 3P4W
- Optional backup module

Easy-to-Install

- IP54 rated
- Parallel installation back-to-back

Compliance

- Global grid certified & listed
- Compliance with global safety standards.

Pi station 230EX Specs

Model	PI STATION 230EX
AC Parameters	
Grid Connection Method	3L+N
Rated Output Voltage	400Vac
Rated Output Power	105kW
Maximum Output Power	115kVA
Rated Frequency	50Hz
Power Factor	1 (Leading) - 1 (Lagging)
DC Parameters	
Battery Configuration Capacity	232.96kWh
Battery Grouping Method	260S1P
Maximum Voltage Range	650~949Vdc
Depth of Discharge	90% DOD
Cycle Life	≥6000 cycles(25°C, 0.5C/0.5P, 70%EOL)
System Parameters	
Dimensions(W x D x H)	1000 x 1390 x 2430mm
Weight	2500kg
Noise	≤78dB
Protection Rating	IP54
Operating Temperature	Charge:0~55°C Discharge:-20~55°C
Storage Temperature	-30 ~ 60°C
Thermal Management	Liquid Cooling + Dehumidification / Heating
Cooling Capacity	5.2kW
Heating Capacity	2.5kW
Operating Environment Humidity	5 ~ 95%RH(Non-condensing)
Permissible Altitude	≤2000m
Communication Parameters	
Communication Interface	RS485/CAN/Ethernet
Human-Machine Interface	Industrial Display Screen
Regulations	
Certifications	CE-EMC, CE-LVD, NRS097, 50549-1, 50549-2, 50549-1+Netherlands, 50549-1+C10/11 Belgium, 50549-1+Greece, 50549-1+Sweden, 50549-1+Poland, G99, VDE-AR-N 4105:2018, CQC Product certification, High penetration and low penetration test certification

JS Series Hybrid Inverters



Features



Dual Backup Ports

- Customize Critical and Common Loads



Generator Compatible

- Dual Power Sources for Backup During Outage



200% Overload Capability

- 10 Seconds



Unbalanced Loads Supported

- 50% of Rated Power Each Phase



AC Coupling

- Solution for Legacy Users



Scalable

- Parallel up to 90kW to Form a Micro-grid

JS Series Hybrid Inverters Specs

Models	JS3PL8K	JS3PL10K	JS3PL12K	JS3PL15K
Input DC (PV side)				
Max. usable PV input power	12.8 kW	16 kW	19.2 kW	24 kW
Max. input voltage	1000 V			
Rated voltage	550 V			
Start-up voltage	160 V			
MPPT voltage range	200 - 850 V			
Max. input current	20A / 40A			40A / 40A
Max. short circuit current	30A / 50A			50A / 50A
MPPT number / Max. input strings number	2 / 3			2 / 4
Battery				
Battery type	Li-ion / Lead-acid			
Battery voltage range	40 - 60 V			
Max. charge / discharge current	180A	220A	250A	290A
Communication	CAN / RS485			
Output AC (Grid side)				
Rated output power	8 kW	10 kW	12 kW	15 kW
Max. apparent output power	8 kVA	10 kVA	12 kVA	15 kVA
Operation phase	3/N/PE			
Rated grid voltage	380 V / 400 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	12.2A / 11.5A	15.2A / 14.4A	18.2A / 17.3A	22.8A / 21.7A
Max. output current	12.2A / 11.5A	15.2A / 14.4A	18.2A / 17.3A	22.8A / 21.7A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
Input AC (Grid side)				
Input voltage range	323 - 460 V			
Max. input current	18.3A / 17.3A	22.8A / 21.7A	27.3A / 26.0A	34.2A / 32.5A
Frequency range	45 - 55 Hz / 55 - 65 Hz			
Input Generator				
Max. input power	8 kW	10 kW	12 kW	15 kW
Max. input current	12.2A	15.2A	18.2A	22.8A
Rated input voltage	3/N/PE, 380 V / 400 V			
Rated input frequency	50 Hz / 60 Hz			
Output AC (Back-up)				
Rated output power	8 kW	10 kW	12 kW	15 kW
Max. apparent output power	2 times of rated power, 10 s			
Back-up switch time	< 10 ms			
Rated output voltage	3/N/PE, 380 V / 400 V			
Rated frequency	50 Hz / 60 Hz			
Rated output current	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	22.8 A / 21.7 A
Max. continuous output current	12.2 A	15.2 A	18.2 A	22.8 A
Max. continuous AC passthrough current	50 A			
THDv (@linear load)	< 3%			
Efficiency				
Max. efficiency	97.60%			
EU efficiency	97.00%			
Protection				
Anti-islanding, Output over current, Short circuit, DC reverse-polarity, Surge				
General Data				
Dimensions (W × H × D)	430 × 660 × 305 mm			
Weight	42 kg			
Topology	Non-isolated			
Operating ambient temperature	-40 ~ +60°C			
Ingress protection	IP66			
Noise emission (typical)	< 65 dB(A)			
Cooling concept	Intelligent fan-cooling			
Max. operation altitude	4000 m			
Features				
Display	7.0" LCD display & Bluetooth + APP			
Communication	CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN			

Accessories



LSW-5

162002100019

Compatible with V5° / V5°a / V5°a Plus / V10



WD01

Compatible with E-BOX 48100R



HUB

110409100001

Enables communication with multiple groups of batteries



Busbar:

161506100003

300A Junction Box

300A/6 x M5+2 x M10 Terminals

110409100026

300A Busbar

300A/12 x M6+2 x M8 Terminals

110409100027

600A Busbar

600A/6 x M10+2 x M8 Terminals

Accessories

Cables



Power Cables

161412100245/161412100244

UL10269-4AWG-2000mm-Negative/Positive-Black/Orange-Amphenol 5.7mm+SC25-8

161412101029/161412101027

UL10269-0AWG-2000mm-Negative/Positive-Black/Orange-Amphenol 8.0mm+SC50-10

161412100468/161412100467

UL10269-4AWG-2000mm-Negative/Positive-Black/Orange-Amphenol 5.7mm+SC25-10



161412101026/161412101024

UL10269-0AWG-2000mm-Negative/Positive-Black/Orange-SC50-6+SC50-10

161412100466/161412100465

UL10269-00AWG-2000mm-Negative/Positive-Black/Orange-SC70-10*2

161412100462/161412100461

UL10269-0000AWG-2000mm-Negative/Positive-Black/Orange-DTF120*2



Communication Cable

161412101071

Standard Communication Cable

Compatible with: Sol-ark Megarevo Solis Deye Afore Luxpower Growatt Goodwe APsystems SMA Studer etc.

1614121010xx

Customized Communication Cable

Compatible with: Epever Phocos Voltronic Victron SRNE etc.



161412100916

Console Cable

USB to RJ45 cable for monitoring & upgrading



60kWh
Panama 




20kWh
Curacao 




10KWh
Puerto Rico 




45kW / 180kWh
Dakota 



18kW / 120kWh
Germany 



15kW / 160kWh
Florida 



30kWh
Germany 



128kWh
Germany 



186kWh
China 

45kW / 180kWh
Dakota 

186kWh
China 



186kWh
China 

186kWh
China 

186kWh
China 



186kWh
China 

232.96kWh
China 

186kWh
China 

Compatibility List of PYTES ESS and Inverters

Low Voltage



High Voltage



Pytes

Shanghai PYTES Energy Co., Ltd.
NO.3492, Jinqian Road, Fengxian District, Shanghai, China

North America
pytesusa@pytesgroup.com

Europe
pytesbv@pytesgroup.com

AP & Other Regions
pytesess@pytesgroup.com



Power a Better Life!



More Catalogs





LinkedIn




Facebook




Instagram




YouTube




www.pytesess.com


Shanghai PYTES Energy Co, LTD