



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

2004
~
2014

2015

2016

2017

2018

2019

2020

2021

2022

2024

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

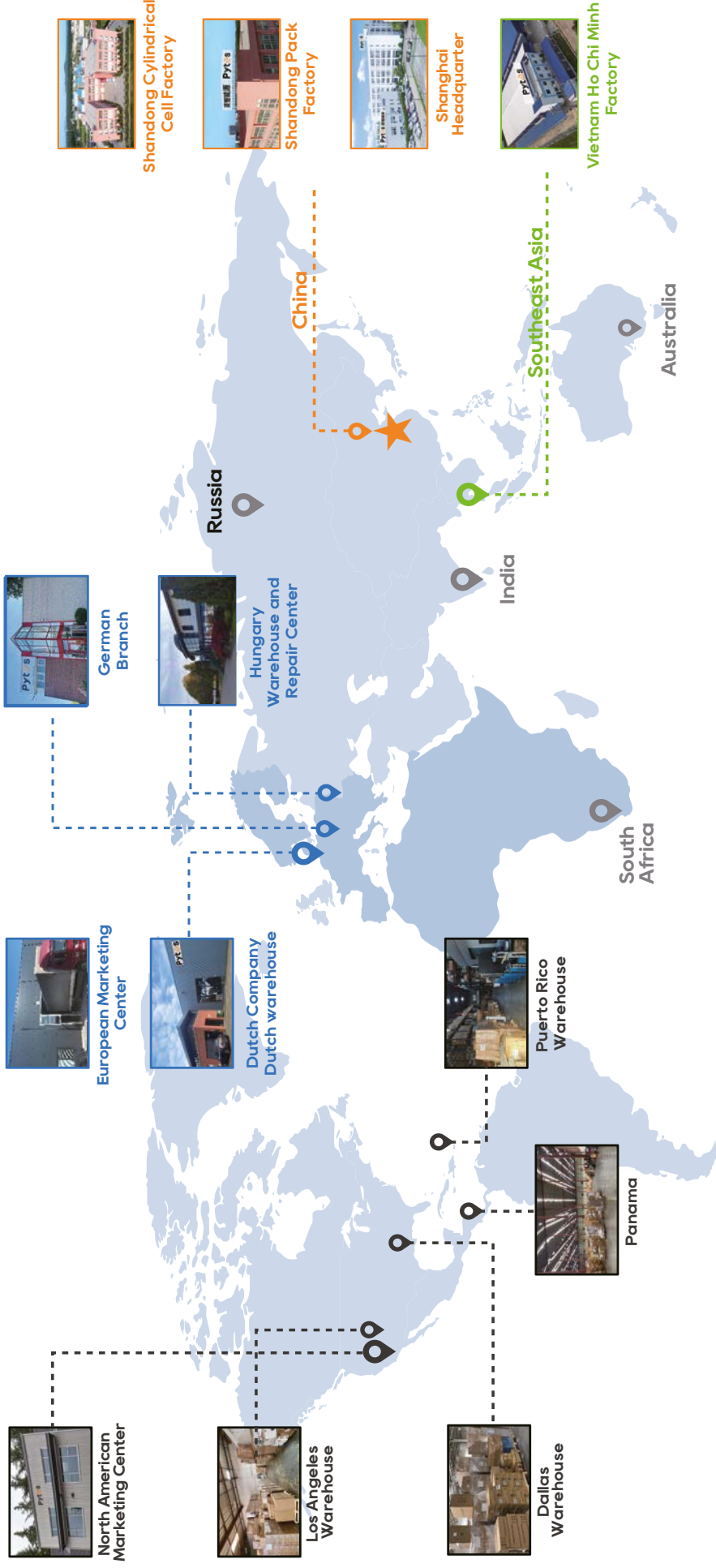


Pytes

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.**
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TEL: +86 (21) 5747 5852

• **PYTES B.V.**
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• **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
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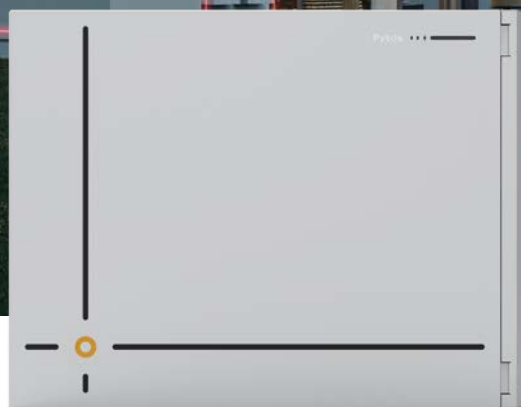
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V 12

Wall Mounted LFP Battery



Features



Enhanced Safety

- Pre-charge Circuit Integrated
- Emergency Shutdown with Battery Breaker
- Built-in Fire Fighting System (Optional)



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

- C4-M 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

Optional Carrying Handle



Optional Carrying Handle

Dimensions: 328×136×20mm / 12.9×5.4×0.8 inch

V12 Specs

Electrical

Nominal Voltage	51.2V
Operating Voltage Range	47.5~57.6V
Nominal Capacity	230Ah
Battery Capacity in kWh	11.776kWh
Recommended Charge Current	100A(5.12kW)
Recommended Discharge Current	100A(5.12kW)
Peak Discharge Current	200A [for 180 seconds]
Rated DC Power	5.12kW
Battery Depth of Discharge	90%

General

Power Terminal	V12 PHOENIX BPC250 Quick Connector
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	6000 Cycles
Altitude	<13123.35ft / 4000m
Warranty	10 Years Basic ^[1] Warranty
Ingress Protection	IP66
Corrosion Resistance Class	C4-M ^[2]
Mounting Method	Wall / Ground (W/ Optional Battery Tray)
Heating Pad (Integrated)	Temperature Rise: 8°C/h / 14.4°F/h

[1] Test Conditions: 25° C, 0.5C/0.5C, 90% DoD,
[2] 70% SOH at Years Warranty Activation Date

Certifications

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

V5° / V5°α / V5°α plus



Features



Remote Monitoring and Upgrading

- Optional



Wider Operation Temperature

- Heating Pad Integrated



Emergency Shutdown

- Upgrade with Battery Breaker (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]: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.

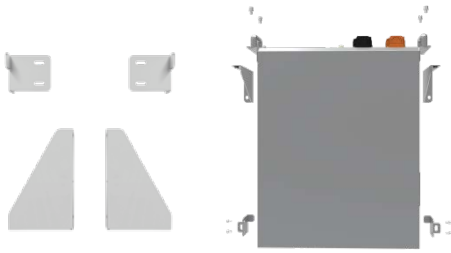
General

Power Terminal	PHOENIX M6 Bolt	Amphenol Surlok Plus 8.0mm
Chemistry	LFP	
External Communication Protocol	CAN / RS485 / Dry Contact / WiFi(Optional Dongle)	
Dimension (With Handle) (L x W x H)	484 x 560.2 x 140 mm / 19.06 x 22.05 x 5.51 inch (32U)	484 x 578.2 x 140 mm / 19.06 x 22.76 x 5.51 inch (32U)
Dimensions (Without Handle) (L x W x H)	424 x 530 x 140 mm / 16.69 x 20.87 x 5.51 inch	432 x 540 x 140 mm / 17.01 x 21.26 x 5.51 inch
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

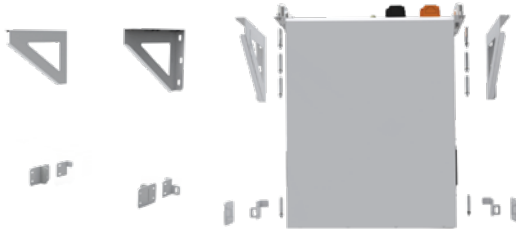
Dimensions(W×D×H):

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 8 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

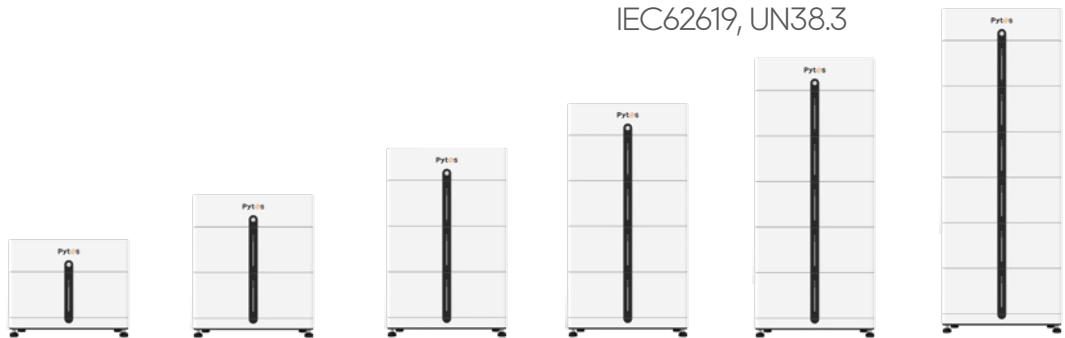
- Remote Upgrading & Monitoring



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 ^[1]	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 ^[2]	≥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/	50A (2.56kW dc)
Discharge Current	
Maximum Charge/	50A (2.56kW dc)
Discharge Current	
Peak Discharge Current	102A (5.22kW@15s)

General

Chemistry	LFP
Communication Protocol	CAN/RS485
Dimensions (With Handle) (L x W x H)	480 x 658 x 117 mm / 18.90 x 25.91 x 4.61 inch (2.6U)
Dimensions (Without Handle)) (L x W x H)	435 x 620 x 117 mm / 17.13 x 24.41 x 4.61 inch
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



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



Smart

- Remote Upgrading & Monitoring



Wide Compatibility Range

- Closed-Loop Compatible with Over 20+ Inverters



Powerful

- 7.17kW Powerful Output,
- 14.34kWh High Capacity



Elegant

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



Easy To Install

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

Optional Carrying Handle



Horizontal Carrying Handle

Dimensions: 489×225×272.5mm / 19.3×8.6×10.7 inch



Vertical Carrying Handle

Dimensions: 955×225×25 mm / 37.6×8.6×1 inch

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



Ecox 12100



Features



Lighter

- 50% lighter than lead-acid batteries of the same capacity



Higher Charge/Discharge Rate

- 30% higher energy density than lithium iron phosphate batteries of the same capacity



Long-lasting

- Up to 4500+ cycles, maximizing your return on investment



Remote Monitoring

- Built-in Bluetooth module, supports real-time battery monitoring via mobile devices



Scalable on Demand

- Supports up to 16 batteries in 4S4P configuration, with a maximum energy of 20.48 kWh

Application Scenarios

The Ecox 12100 is suitable for deep-cycle off-grid applications such as RVs, boats, trucks, and cabins, and can replace deep-cycle lead-acid batteries



Ecox 12100 Specs

Electrical

Nominal Voltage	12.8VDC
Nominal Capacity	100Ah
Internal Resistance	<10mΩ
Round-Trip Efficiency	99%
Self-discharge Rate	≤3% per month
Scalability	4S4P
Cycle Life	>4500
Maximum Continuous Discharge Current	100A
Maximum Discharge Current	200A@30s
Maximum Continuous Charge Current	100A
Recommended Continuous Charge Current	≤50A
Recommended Charge Voltage	14V~14.8V

Environmental

Recommend Storage Temperature	-4°F~140°F , -20°C~60°C
Discharging Temperature	-4°F~122°F , -20°C~50°C
Autitude	<4000m
Relative Humidity	5%~95% (no condensation)

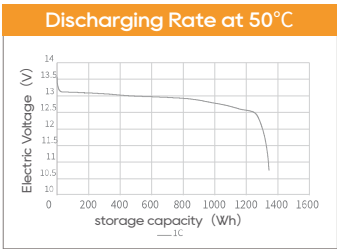
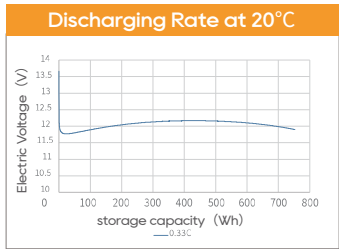
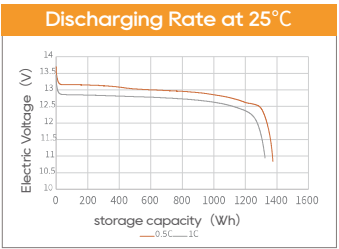
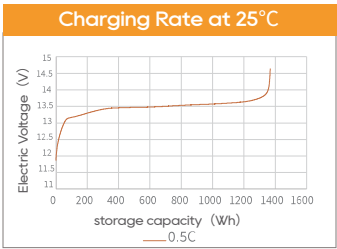
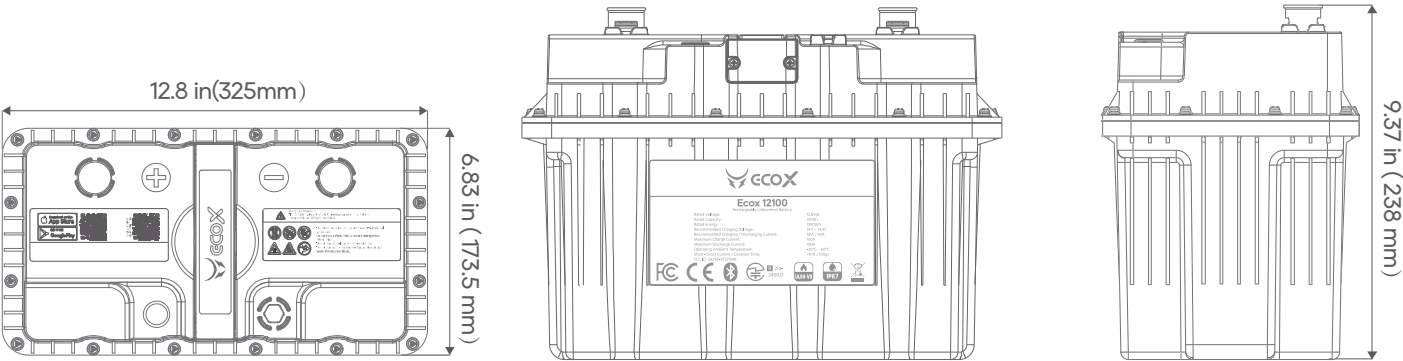
Mechanical

Dimensions	12.8 x 6.83 x 9.37 in (325 x 173.5 x 238mm)
Weight	approx 26.46 lbs (12kg)
Terminal Type	M8 x 14
Terminal Torque	9±1Nm
Housing Material	PC
Ingress Protection	IP67
Battery Type	LFP

Other

Certification	UN38.3, FCC, IEC 62619, CE
Communication	BLE 5.0
APP	Battery Cloud

Dimensions



★ The above data is based on controlled environment test records, and actual usage may vary depending on external environmental conditions.

ECOX 12100 SE



Features



Lighter

- 50% lighter than lead-acid batteries of the same capacity



Higher Charge/Discharge Rate

- 30% higher energy density than lithium iron phosphate batteries of the same capacity



Long-lasting

- Up to 4000+ cycles, maximizing your return on investment



Remote Monitoring

- Operation indicator, warning light, and SOC indicator allow you to monitor the battery status in real-time



Scalable on Demand

- Supports up to 8 batteries in parallel, with a maximum energy of 10.24 kWh



Self-heat

- Built-in heating film, supports battery charging in cold environments

Application Scenarios

Ecox 12100 SE is suitable for deep-cycle off-grid applications such as RVs, boats, trucks, and cabins, and can replace deep-cycle lead-acid batteries



Ecox 12100 SE Specs

Electrical

Nominal Voltage	12.8VDC
Nominal Capacity	100Ah
Internal Resistance	<10mΩ
Self-discharge Rate	≤3% per month
Scalability	8P
Cycle Life	>4000
Maximum Continuous Discharge Current	100A
Peak Discharge Current	200A@10s
Maximum Continuous Charge Current	100A
Recommended Charge Current	≤50A
Recommended Charge Voltage	14V-14.4V

Environmental

Recomened Storage Temperature	50°F~104°F , 10°C~40°C
Storage Temperature	-4°F~122°F , -20°C~50°C
Autitude	<4000m
Relative Humidity	5%~95% (no condensation)

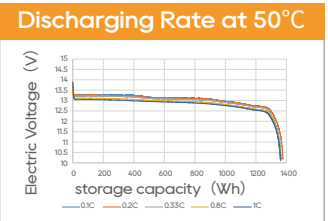
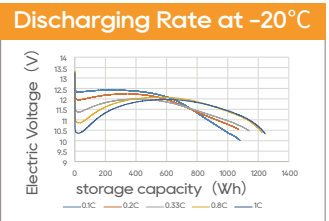
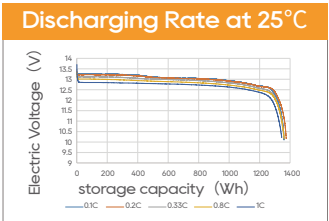
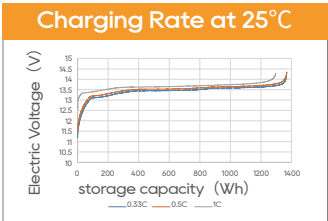
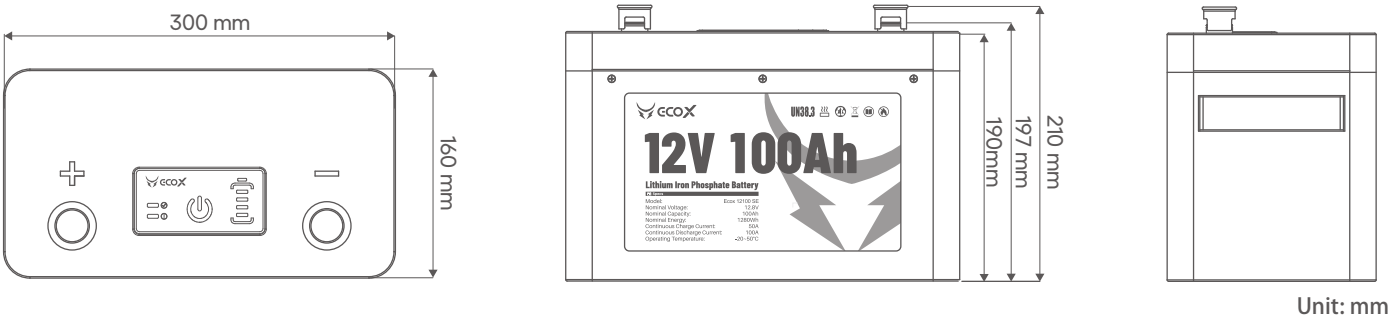
Mechanical

Dimensions	300 x 160 x 210 mm
Weight	approx 12kg
Terminal Type	M8 x 1.25 x 14mm
Terminal Torque	8±1Nm
Housing Material	Metal
Ingress Protection	IP20
Battery Type	LFP
Cooling	Nature Cooling

Other

Certification	UN38.3, IEC 62619, CE
Heating	Support

Dimensions



★ The above data is based on controlled environment test records, and actual usage may vary depending on external environmental conditions.

Ecox 12200



Features



Lighter

- 50% lighter than lead-acid batteries of the same capacity



Higher Charge/Discharge Rate

- 30% higher energy density than lithium iron phosphate batteries of the same capacity



Long-lasting

- Up to 4000+ cycles, maximizing your return on investment



Remote Monitoring

- Built-in Bluetooth module, supports real-time battery monitoring via mobile devices



Scalable on Demand

- Supports up to 16 batteries in 4S4P configuration, with a maximum energy of 40.96 kWh



Self-heat

- Built-in heating film, supports battery charging in cold environments

Application Scenarios

The Ecox 12200 is suitable for deep-cycle off-grid applications such as RVs, boats, trucks, and cabins, and can replace deep-cycle lead-acid batteries



Ecox 12200 Specs

Electrical

Nominal Voltage	12.8VDC
Nominal Capacity	200Ah
Internal Resistance	<10mΩ
Round-Trip Efficiency	99%
Self-discharge Rate	≤3% per month
Scalability	4S4P
Cycle Life	>4000 (80% DOD, 0.5 C, 25°C)
Maximum Continuous Discharge Current	100A
Maximum Discharge Current	200A@5s
Maximum Continuous Charge Current	100A
Recommended Charge Voltage	14V-14.6V

Environmental

Discharging Temperature	-20°C~60°C
Charging Temperature	0°C~55°C
Storage Temperature	-40°C~60°C
Altitude	<4000m
Relative Humidity	5%~95% (no condensation)

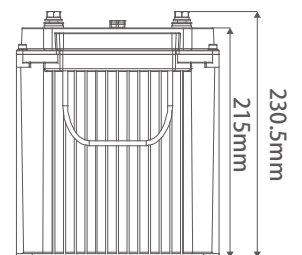
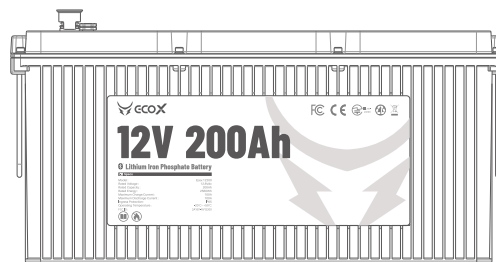
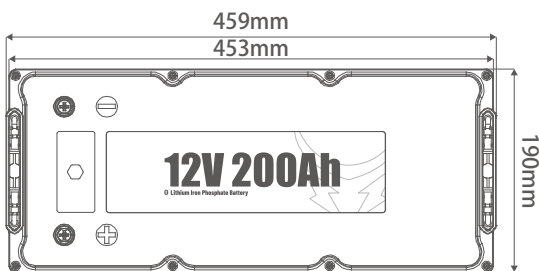
Mechanical

Dimensions	495 x 190 x 234.5 mm
Weight	approx 20.9kg
Terminal Type	M8 x 1.25 x 14mm
Terminal Torque	9±1Nm
Housing Material	PC
Ingress Protection	IP65
Battery Type	LFP

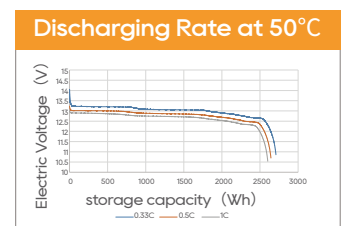
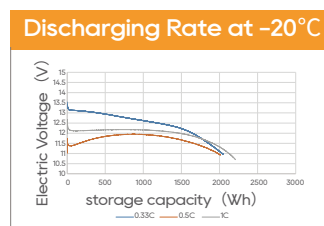
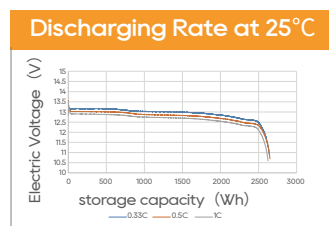
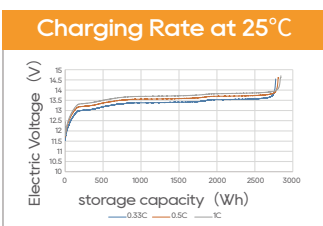
Other

Certification	UN38.3, IEC 62619, FCC, CE
Communication	BLE 5.0
Heating Film	Support
APP	Battery Cloud

Dimensions



Unit: mm



* The above data is based on controlled environment test records, and actual usage may vary depending on external environmental conditions.

EX2000 Balcony Solution



Features



Installer Friendly

- 5-Minute Plug & Play



Long Service Life

- 6000 Cycles@90% DoD



Widely Applicable

- Apartment, Garden, House



Safe

- Tier 1 Grade A LFP Cells
- Pytes BMS Optimize Efficiency without Posing Risk
- IP65 Water and Dust Proof Enclosure



Giant Capacity & Powerful Output

- 2.56kWh per Unit
- 1.28kW Rated Output Power
- Scalable up to 10.24kWh

EX2000 Specs

Electrical

Nominal Voltage	51.2V
Operating Voltage Range	47.5~56.8V
Nominal Capacity	50Ah
Nominal Energy	2.56kWh
Recommended Charge/ Discharge Current	25A(1.28kW)
Peak Discharge Current	50A@10s

General

Chemistry	LFP
Communication Interface	CAN2.0 / WIFI
Dimensions(L x W x H)	450x 150 x 410mm / 17.72 x 5.91 x 16.14inch
Weight	27kg / 59.52lbs
Operating Temperature	Charge: 0~55°C / 32~131°F Discharge: -10~55°C / 14~131°F
Cycle Life*	6000 Cycles
Altitude	<13123.35ft / 4000m
Warranty	10 Years Basic Warranty
Ingress Protection	IP65
Corrosion Resistance Class	C4M
Mounting Method	Ground
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

IEC62619, CE, UN38.3

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

BMU Quantity: 9~12

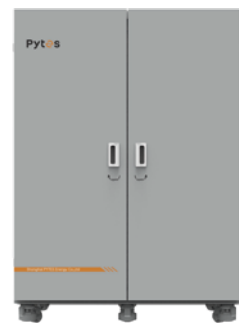
Dimensions:

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 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

Mode	PI STATION 230EX
System Specificatoin	
Battery Chemistry	LFP (LiFePO4)
Nominal Output Power	105KW
Battery Capacity	232.96kWh
Battery Nominal Voltage	832V
Operating DC Voltage Range	650V-949V(3P4W)
Recommended. Charging/ Discharging Current	140 ^[1]
Fire Fighting System	1.Sensor Tube(Aerosol) 2.Water Fire Fighting System 3.Heat/Smoke/Gas sensor
Cell Cycle life	6000 ^[2]
DOD	90%
Warranty	3 Year Product Warranty, 10 Year Battery Warranty
Conmmunication	
Communication port	CAN, RS485, Ethernet
Communication protocol	ModbusRTU/TCP
Mechanical	
Dimensions(W x D x H)	1000 x 1390 x 2430mm
Weight	2500kg
Cooling System	Liquid cooling
IP protection	IP54
Environmental	
Reactive Humidty	0-95% (no condensing)
Operating Temperature Range	-20~55°C
Recommended Cell Temperature Range	Charge:0~55°C; Discharge:-20~55°C
Altitude	2000m (>2000 derating)
Regulations	
Certification	CELL IEC 62619:2022, IS 16046 (PART 2) : 2018 / IEC 62133-2 : 2017, UL1642, UL1973, UL9540A, GB/T36276-2023, GB 38031-2020, GB/T 31486-2015, GB/T 31484-2015, GB/T 30512-2014, UN38.3, REACH, RoHS PCS CE-EMC, CE-LVD, South Africa NRS097, 50549-1 European general, 50549-2 European general, 50549-1 Netherlands, 50549-1 C10/11 Belgium, 50549-1 Greece, 50549-1 Sweden, 50549-1 Poland, England-G99, VDE-AR-N 4105:2018, GB/T 34120-2017 System UN38.3, IEC62619, IEC63056, IEC62477, CE-EMC
[1] Charge and discharge current derating will occur outside 0°C and 45°C [2] Under test conditions(20~35°C, 0.5P/0.5P, EOL70%)	

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:

110409100204

300A Busbar

12 x M6+2 x M8 Terminals

110409100205

600A Busbar

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



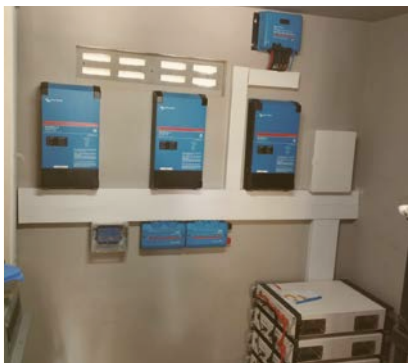
60kWh
Panama



45kW / 180kWh
Dakota



15kW / 160kWh
Florida



20kWh
Curacao



18kW / 120kWh
Germany



30kWh
Germany



10KWh
Puerto Rico



128kWh
Germany





45kW / 180kWh
Dakota



186kWh
China



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





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




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www.pytesess.com
Pytes

Shanghai PYTES Energy Co, LTD