

Pylontech
Product Presentation 2021

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Product Tree



12V Amber Rock/Mini Amber
Capacity: 473Wh



12V RT12100G31
Capacity: 1.2kWh



Back Up

24V UP Series
Capacity: 2.84kWh
Up to 56kWh per String



Product Tree



Residential ESS

48V US Series
US2000C: 2.4kWh
US3000C: 3.55kWh
UP5000: 4.8kWh
Up to 76.8 kWh per String
Up to 6 Strings per system



96~528V Powercube-X series
Powercube X1: 4.8~26.4kWh
Powercube X2: 7.1~39.1kWh
Up to 6 strings per system



48V Force L Series
Force L1: 7.1~24.86kWh
Force L2: 7.1~14.21kWh
Up to 6 strings per system



96~384V Force H Series
Force H1: 7.1~24.85kWh
Force H2: 7.1~14.21kWh



Product Tree

150 ~700V (neutral)

LiPower-U100-400

Full rack capacity:58.6kWh/rack
1C charge / 3.6C discharge



**UPS
Back UP**

**Outdoor
C&I ESS**

Optimus

All-in-one outdoor cabinet
MPPT incl. (Max. 180kW)
PCS incl. (Max. 180kW)
Battery system incl.(100 - 400kWh)
EMS incl.
Air-con & fire system incl.
Pre-wire & pre-install battery module

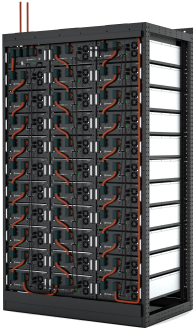


Product Tree



C&IESS

Utility ESS



700 – 1100V

Powercube-**M** series
Up to 182kWh per string
Up to 32 strings per system
Up to 1C-rate continuous operation

400 - 700V

Powercube-**H** series
Up to 45kWh per string
Up to 6 strings per system



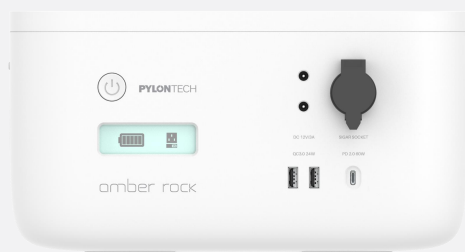
1000 - 1400 V

Powercube-**20H/40H**
Up to 3.3MWH per container



1. AR Series (12V)

Amber Rock AR500-473Wh



12V37Ah

Innovative portable battery bank

Features:

- Wireless Phone charging
- 2*AC output (110V/220V)
- 3*USB output QC2.0/QC3.0/PD2.0(type-c)
- SOS Signal Light for Help
- 9hrs full charged-Standard Charger from PV or AC
- 2hrs full charged-Optional Charger from PV or AC
- Connect to Mini Amber for capacity extension

Mechanical Characteristics

| | | |
|------------|--------|--------|
| Dimensions | Depth | 303 mm |
| | Height | 198mm |
| | Width | 161 mm |

Weight

6.4 kg

1. AR Series (12V)

Mini Amber MA500-473Wh



12V37Ah
Extension Battery Pack

Features:

Fast charging for Cell phone/laptop and other DC device
9hrs full charged-Standard Charger
2hrs full charged-Optional Charger

Mechanical Characteristics

| | | |
|------------|--------|--------|
| Dimensions | Depth | 303 mm |
| | Height | 198mm |
| | Width | 108 mm |

Weight **3.2 kg**

1. RT Series (24V)

RT12100G31-1.20kWh



12V100Ah

Features:

- IP67 enclosure
- Serial connect up to 4 pcs(48V). Parallel connect up to 4pcs(400Ah).
- Heating film included, operating between -20 ~ 60°C
- Continuous 100A, peak at 200A@30Sec
- Support monitoring by CANBUS, RS485, Bluetooth, dry contactor.

Application: Lead Acid battery replacement, truck, RV, marine...

Mechanical Characteristics

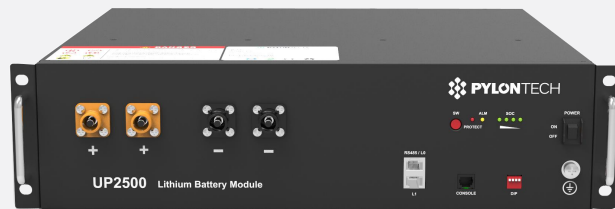
| | | |
|------------|--------|---------|
| Dimensions | Depth | 325 mm |
| | Height | 173.5mm |
| | Width | 226 mm |

Weight

13 kg

2. UP Series (24V)

UP2500-2.66kWh



25.6V111Ah

Up to 20pcs per string

Design life: > 15years

Communication protocols: CAN, RS485

Lead Acid battery replacement

Mechanical Characteristics

| | | |
|---------------|--------|----------------|
| Dimensions | Depth | 442 mm |
| | Height | 420 mm |
| | Width | 119 mm |
| Weight | | 27.5 kg |

3. US Series (48V)

US2000C-2.4kWh



48V50Ah

DoD: 95%

Life cycle: > 6000

Design life: > 15years

Up to 16pcs per string

Communication protocols: CAN, RS485

Safety Certificate: IEC62619,CE, UN38.3, ROHS

Mechanical Characteristics

| | | |
|---------------|--------|--------------|
| Dimensions | Depth | 173mm |
| | Height | 220mm |
| | Width | 300mm |
| Weight | | 15 kg |

3. US Series (48V)

US3000C-3.55kWh



48V74Ah

DoD: 95%

Life cycle: > 6000

Design life: > 15years

Up to 16pcs per string

Communication protocols: CAN, RS485

Safety Certificate: IEC62619, CE, VDE2510-50, UL1973, UL9540A, UN38.3, ROHS

Mechanical Characteristics

| | | |
|---------------|--------|--------------|
| Dimensions | Depth | 442mm |
| | Height | 420mm |
| | Width | 132mm |
| Weight | | 32 kg |

3. US Series (48V)

Phantom-2.4kWh



48V50Ah

DoD: 95%

Life cycle: > 6000 (25°C)

Design life: > 15years

Communication protocols: CAN, RS485

Safety Certificate: IEC62619,CE, UN38.3, ROHS

Mechanical Characteristics

| | | |
|---------------|--------|--------------|
| Dimensions | Depth | 440mm |
| | Height | 440mm |
| | Width | 88.5mm |
| Weight | | 24 kg |

3. US Series (48V)

UP5000-4.8kWh



48V100Ah

DoD: 95%

Life cycle: > 4500

Up to 16pcs per string

Communication protocols: CAN, RS485

Safety Certificate: IEC62619/CE/ UN38.3

Mechanical Characteristics

| | | |
|---------------|--------|--------------|
| Dimensions | Depth | 440mm |
| | Height | 485mm |
| | Width | 132mm |
| Weight | | 45 kg |

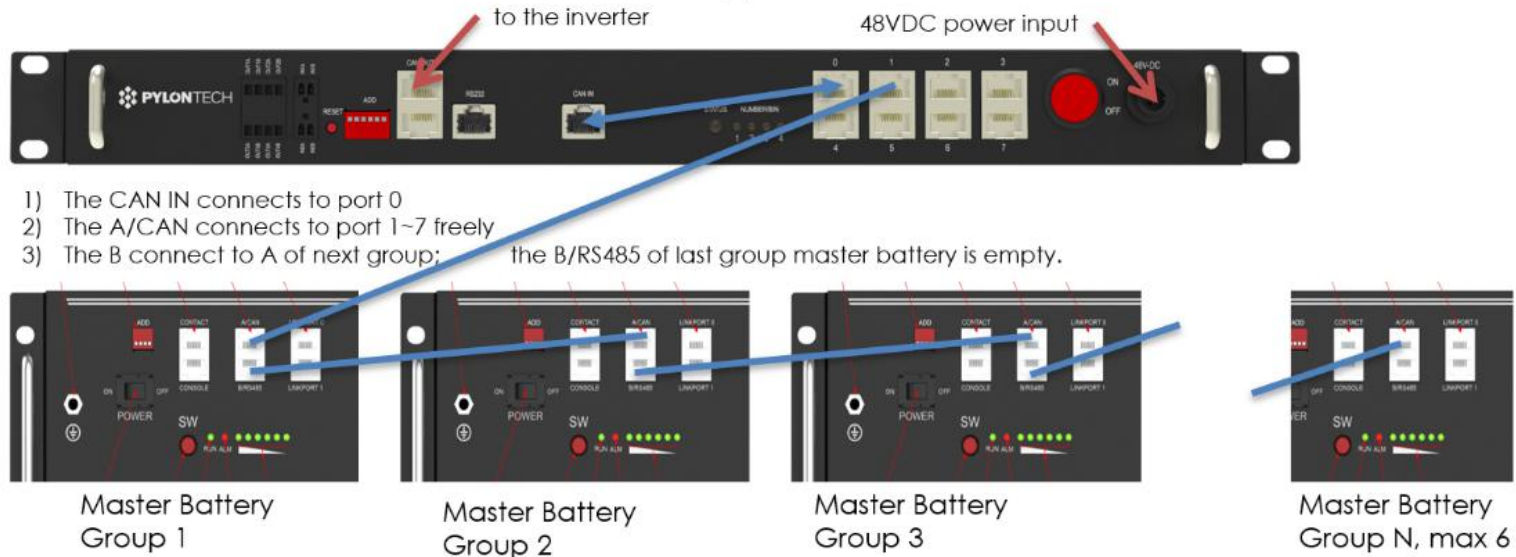
3. US Series (48V)

LV-HUB-For communication

Multi Battery Piles **RS485/CAN Communication** Cable Connection
Each Communication HUB connects maximum 6 battery string.
5 LV-hubs support maximum 480 batteries in parallel with communication.

Multiple Battery Groups CAN Communication Cable Connection

Each Communication HUB connects maximum 6 battery piles.

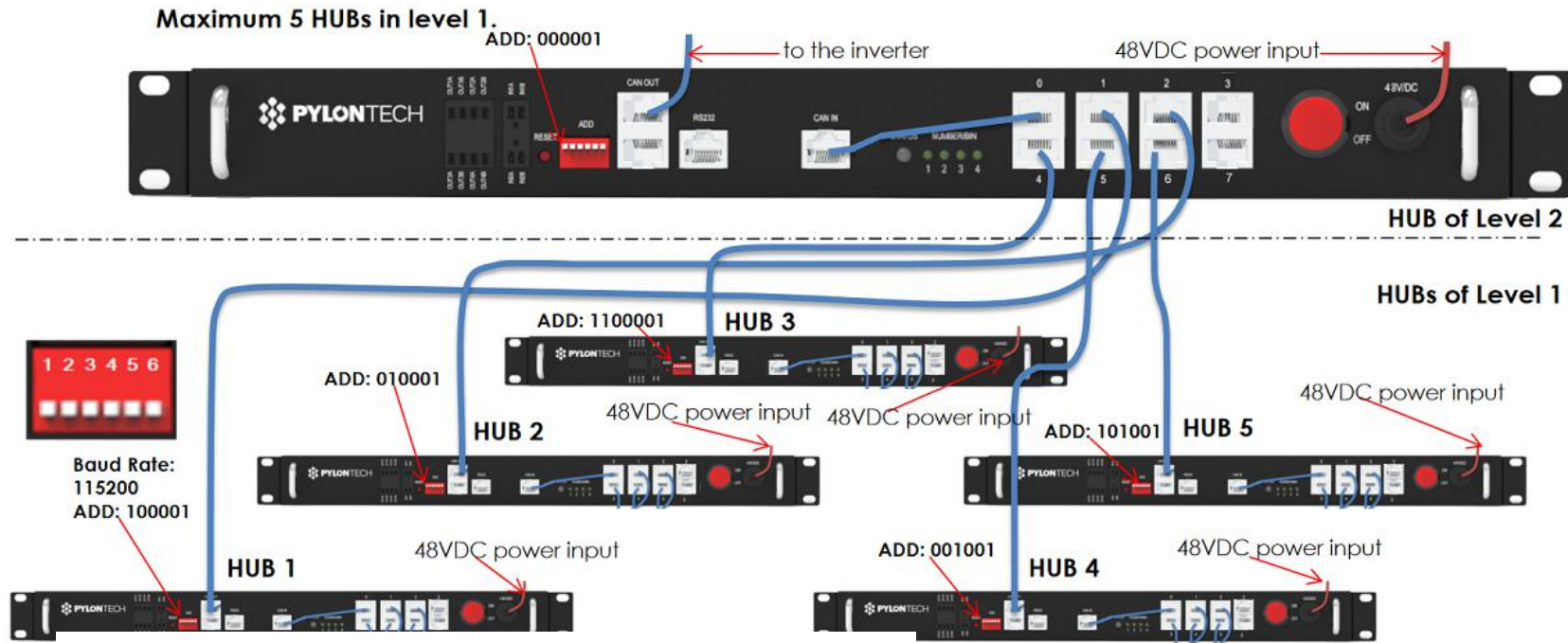


Each battery pile can configure maximum 16pcs US2000C/US3000C/UP5000

3. US Series (48V)

LV-HUB-For communication

Multiple HUBs CAN Communication Cable Connection



Battery bank can configure maximum 200pcs US2000 or US3000.

Battery bank can configure maximum 480 pcs US2000C/US3000C/UP5000

3. US Series (48V)

Installation-Bracket



Vertical installation



Horizontal installation

3. US Series (48V)

Installation-Indoor Cabinet



3. US Series (48V)

Installation-Outdoor Cabinet



3. US Series (48V)

Installation-Wall Mounted Cabinet



3. FORCE L Series (48V)

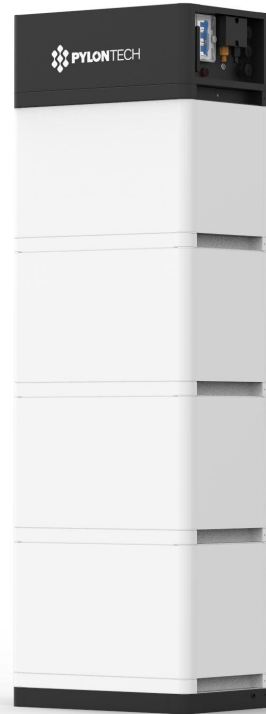
Force L1-(7.1~24.86kWh)



7.1-24.86 kWh
Flexible Mounting
Plug & Play
95% DOD
IP 55 Protection
IEC62619/VDE2510-50/CE/UN38.3/ROHS

3. FORCE L Series (48V)

Force L2-(7.1~24.86kWh)



7.1-14.21 kWh
Flexible Mounting
Plug & Play
95% DOD
IP 55 Protection
IEC62619/VDE2510-50/CE/UN38.3/ROHS

4.FORCE H series (96V-336V)

Force H-(7.1~24.86kWh)



| Basic Parameters | FORCE H1 (336V74AH) | FORCE H2 (384V37AH) |
|---|---|--|
| Battery Module | FH48074 | FH9637M |
| Battery Module Voltage(Vdc) | 48 | 96 |
| Battery Module Capacity(Ah) | 74 | 37 |
| Battery Module Qty.(Optional) | 3~7 Pcs | 2~4 Pcs |
| Battery System Capacity(kWh) | 24.86 | 14.21 |
| Battery System Voltage (V) | 336 | 384 |
| Dimension(W*D*H cm) | 600*380*1380 | 450*296*1415 |
| Weight(kg) | 259 | 155 |
| Depth of Discharge | 95% | 95% |
| Charge&Discharge Current (continuous/max.@15sec, amps) | 37/40 | 18.5/40 |
| Communication | CAN,Modbus | CAN,Modbus |
| Protection Class | IP55 | IP55 |
| Working Temperature(℃) | 0-50 | 0-50 |
| Storage Temperature(℃) | -20-60 | -20-60 |
| Design Life | 15 ⁺ Years(25℃ /77℉) | 15 ⁺ Years(25℃ /77℉) |
| Authentication Level | UL1973/IEC62619/IEC 62477/ IEC62040/VDE2510/CE | IEC62619/IEC62477/ IEC 62040/VDE2510/CE |

4. Powercube X series (96V-528V)

Powercube X1/X2-Full Rack capacity: 26.4/39.1kWh

Commercial Battery Solution:

Modularization design in 48VDC in series

Battery voltage: 96V~528V

Battery Module Qty. (Optional): 2-11 Pcs

DoD: 95%

Life cycle: 5000

Design life: > 15years

Battery system charge Current 1C (Max.)

Communication protocols: CAN, Modbus RTU

Safety Certificate: IEC62619/VDE2510-50/UL1973/CE/UN38.3/ROHS



H48050 (2.4 kWh)
H48074 (3.55 kWh)



Main Controller
SC500-40/100S



Rack Dimension:
600(W)*505(D)*1300(H)MM
600(W)*505(D)*2140(H)MM

5.Powercube-H series (240V-720V)

Powercube H1-Full Rack capacity: 36 kWh

Commercial Battery Solution:

Modularization design in 48VDC in series

Battery voltage:240V~720V

Battery Module Qty.(Optional):5-15 Pcs

DoD: 95%

Life cycle: 5000

Design life: > 15years

Battery system charge Current 1C (Max.)

Communication protocols: CAN, Modbus RTU

Safety Certificate: IEC62619/VDE2510-50/UL1973/CE/UN38.3/ROHS



Battery
H48050 (2.4 kWh)



Main Controller
SC1000-100S



Rack Dimension:
600(W)*505(D)*2140(H)MM

5.Powercube-H series (240V-576V)

Powercube H2-Full Rack capacity: 42.62 kWh

Commercial Battery Solution:

Modularization design in 48VDC in series

Battery voltage:240V~576V

Battery Module Qty.(Optional):5-12 Pcs

DoD: 95%

Life cycle: 5000

Design life: > 15years

Battery system charge Current 1C (Max.)

Communication protocols: CAN, Modbus RTU

Safety Certificate: IEC62619/VDE2510-50/UL1973/CE/UN38.3/ROHS



Battery
H48074 (3.55 kWh)



Main Controller
SC1000-100S



Rack Dimension:
600(W)*505(D)*2140(H)MM

6.Powercube-M series (729V-1113.6V)

Powercube **M1**-Full Rack capacity: 108.93 kWh

Commercial Battery Solution:

Modularization design in 32VDC in series

Battery voltage: 32V~736V

Battery Module Qty.(Optional):1-23 Pcs

DoD: 90%

Life cycle: 5000

Design life: > 15years

Battery system charge Current 1C (Max.)

Communication protocols: CAN, Modbus RTU/TCP/IP

Safety Certificate:

IEC62619/IEC63056/VDE2510/UL1973/UL9540A/CE/UN38.3/ROHS



Battery
H32148 (4.74 kWh)



Main Controller
SC1000-200E



Rack Dimension:
815(W)*659(D)*2130(H)MM

6.Powercube-M series (729V-1113.6V)

Powercube *M2A-180*-Full Rack capacity: 107.98 kWh

Commercial Battery Solution:

Modularization design in 38.4VDC in series

Battery voltage: 38.4V~729.6Vdc

Battery Module Qty.(Optional):1-19 Pcs

DoD: 90%

Life cycle: 5000

Design life: > 15years

Battery system charge Current 1C (Max.)

Communication protocols: CAN, Modbus RTU/TCP/IP

Safety Certificate:IEC62619/CE/UN38.3/ROHS



Battery
HM2A180 (5.68 kWh)



Main Controoler
S1000M2A180



Rack Dimension:
803(W)*855(D)*2130(H)MM

6.Powercube-M series (729V-1228.8V)

Powercube *M3A-100*--Full Rack capacity: 182kWh

Commercial Battery Solution:

Modularization design in 38.4VDC in series

Battery voltage: 38.4V~1228.8V

Battery Module Qty.(Optional):1-32 Pcs

DoD: 90%

Life cycle: 5000

Design life: > 15years

Battery system charge Current 0.5C (Continuous)

Communication protocols: CAN, Modbus RTU/TCP/IP

Safety Certificate:IEC62619/UL1973/UL9540A/CE/UN38.3



Battery
HM3A100 (5.68 kWh)



Main Controller
S1000/S1500M3A100



Rack Dimension:
1185(W)*855(D)*2130(H)MM

6.Powercube-M series (729V-1228.8V)

Powercube *M3A-180*--Full Rack capacity: 182kWh

Commercial Battery Solution:

Modularization design in 38.4VDC in series

Battery voltage: 38.4V~1228.8V

Battery Module Qty.(Optional): 1-32 Pcs

DoD: 90%

Life cycle: 5000

Design life: > 15years

Battery system charge Current 1C (continuous with cooling fan)

Communication protocols: CAN, Modbus RTU/TCP/IP

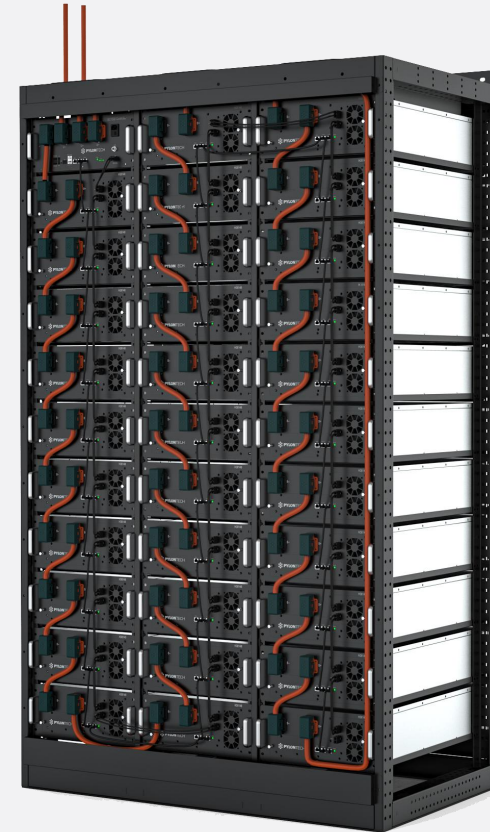
Safety Certificate:IEC62619/VDE2510-50/CE/UN38.3



Battery
HM3A180 (5.68 kWh)



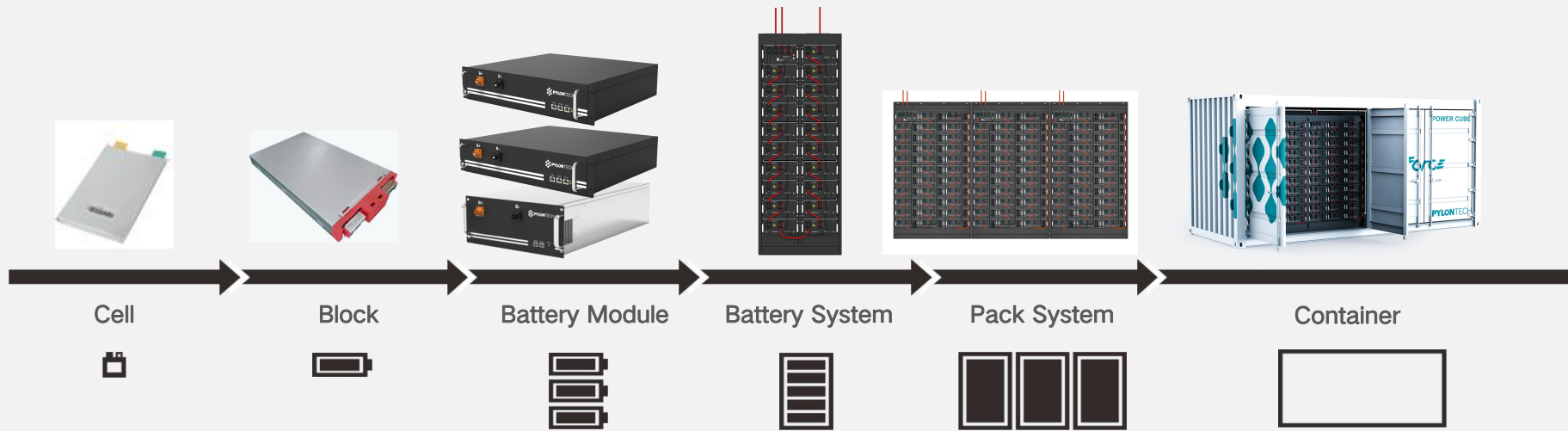
Main Controoler
S1500M3A180



Rack Dimension:
1365(W)*855(D)*2130(H)MM

7.Powercube-20H/40H

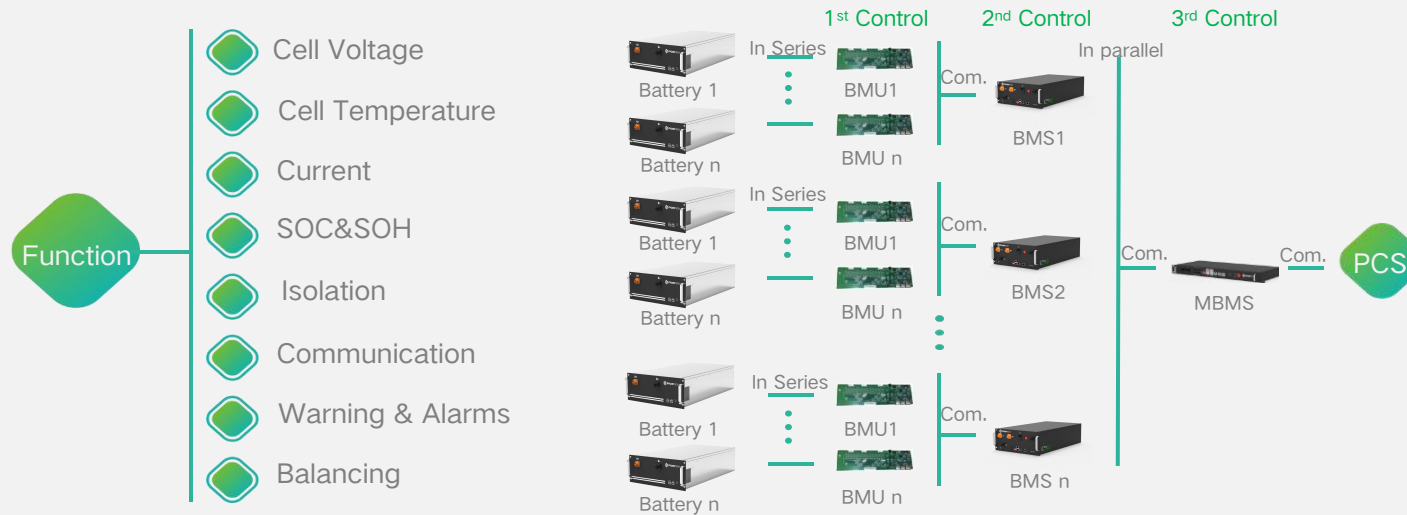
-Production Flow for ESS



7.Powercube-20H/40H

-Controller - Three BMS Structure

Pylon adapt three level BMS structure(BMU, BMS and MBMS), MBMS will collect all battery BMS's situation and information, and communicate with PCS or/and EMS for good cooperation and better operation performance.



7.Powercube-20H/40H

Full Container ESS



| Mechanical Characteristics | | 20H | 40H |
|----------------------------|--------|-----------------|---------------------|
| Dimensions | Width | 6.058M | 12.192M |
| | Height | 2.438M | 2.438M |
| | Depth | 2.896M | 2.896M |
| Weight | | 18 Ton | 35 Ton |
| System Voltage Range | | 736(690-828)Vdc | 1228(1036-1382))Vdc |
| System Capacity | | 1.6MWh | 3.3MWh |

8. Optimus ESS

Outdoor HV ESS-100 – 400 kWh

Commercial ESS Solution:

Battery system: M2A-180/M3A-100 (19pcs per rack)

PV Connection: 100 – 1000Vdc, up to 180kW

PCS output: 400Vac@50/60Hz, up to 187.5kW

EMS function: self-consumption, demand response,
micro-grid control, remote control.

IP65(battery room)+IP54(pcs room)

Fire Extinguishing System:FM200

Safety Certificate:CE/IEC62619/UN3536



Battery
HM2A180 (5.68 kWh)



Main Controller
S1000M2A180



**Rack Dimension:
1400(W)*2100(D)*1000(H)MM**

9.LiPower-U100-400

UPS ESS-56.8kWh/rack

Commercial Battery Solution:

Battery Module: 51.2V111AH(5.68kWh)

BMS:S1000U400(150 ~ 700Vdc, neutral)

Battery Module Qty.:1-10 pcs per cabinet

DoD: 95%

Life cycle: 5000

Design life: > 15years

Battery system charge Current 1C/3P(3.6C)

Master BMS support Modbus RTU/TCP/IP, CANBUS, dry contactor

Safety Certificate:IEC62619/UN38.3/EN61000-1/3/EN55022/EN55024



**Rack Dimension:
600(W)*800(D)*2200(H)MM**

10. Compatible Inverter list

48V Energy Storage Solution (US2000 / US3000 / US2000C / US3000C / UP5000 / Phantom-S / Force-L1/L2)

| Inverter Brand | Inverter Type | Communication | Application | Key Features | | Firmware Ver | Installation |
|--------------------|------------------------------|-------------------|--------------|--------------|--------------|---|---------------|
| | | | | Activation | Force Charge | | |
| Victron Energy | Multiplus 48V (via Venus OS) | CAN | On/off-grid* | Yes | Yes | 422/V2.15 | Wall mounting |
| | Quattro 48V (via Venus OS) | CAN | On/off-grid* | Yes | Yes | 422/V2.15 | Wall mounting |
| Schneider-Electric | Conext XW Pro series | CAN | On/off-grid | Yes | Yes | Gateway: V1.06 XW+ Pro: V1.04 (UL) / V1.05 (IEC) | Wall mounting |
| SolaX Power | SK-SU | CAN/RS232 | On-grid | PV only | Yes | | Wall mounting |
| | SK-TL | CAN/RS232 | On-grid | PV only | Yes | | Wall mounting |
| | SK-BMU | CAN/RS232 | On-grid | PV only | Yes | | Wall mounting |
| Goodwe | GW-BP | CAN | On-grid | Yes | Yes | | Wall mounting |
| | SBP GW-ES | CAN | On-grid | Yes | Yes | | Wall mounting |
| | EM | CAN | On-grid | Yes | Yes | | Wall mounting |
| Imeon Energy | IMEON 3.6 | CAN | On/off-grid | Yes | Yes | V1.7.6.5 | Wall mounting |
| | IMEON 9.12 | CAN | On/off-grid | Yes | Yes | V1.7.6.5 | Wall mounting |
| Studer Innotec | Xtender 48V serie | CAN | On/off-grid | Yes | Yes | R652 | Wall mounting |
| | VarioString serie | CAN | On/off-grid | Yes | Yes | R652 | Wall mounting |
| | VarioTrack 48V serie | CAN | On/off-grid | Yes | Yes | R652 | Wall mounting |
| Selectronic | SPMC 480 | CAN | On/off-grid | No | Yes | | Wall mounting |
| | SPMC 481 | CAN | On/off-grid | No | Yes | | Wall mounting |
| | SPMC 482 | CAN | On/off-grid | No | Yes | | Wall mounting |
| Voltronic | Infinisolar series 48V | RS485(9600) | On/off-grid | Yes | Yes | V1.00 | Wall mounting |
| | Axpert series 48V** | RS485(9600) | On/off-grid | Yes | Yes | 02.61 | Wall mounting |
| Sofar | ME3000SP | RS485(115200)/CAN | On-grid | Yes | Yes | V1.2 | Wall mounting |
| | HYD series | RS485(115200)/CAN | On-grid | Yes | Yes | V1.2 | Wall mounting |

10. Compatible Inverter list

48V Energy Storage Solution (US2000 / US3000 / US2000C / US3000C / UP5000 / Phantom-S / Force-L1/L2)

| Inverter Brand | Inverter Type | Communication | Application | Key Features | | Firmware Ver | Installation |
|---------------------------|--------------------------|-------------------|-------------|--------------|--------------|-----------------------|---------------|
| | | | | Activation | Force Charge | | |
| Sermatec | SMT-5K-TL-LV | CAN | On/off-grid | Yes | Yes | | Wall mounting |
| Zucchetti Centro Sistemi | Azzurro 3000SP | RS485(115200)/CAN | On-grid | Yes | Yes | V1.2 | Wall mounting |
| | Azzurro HYD3000/6000-ES | RS485(115200)/CAN | On-grid | Yes | Yes | V1.2 | Wall mounting |
| Solis | RHI series | CAN | On/off-grid | PV only | Yes | 90009 | Wall mounting |
| | RAI series | CAN | On/off-grid | PV only | Yes | 90009 | Wall mounting |
| Redback | SH5000 | RS485(115200) | On-grid | PV only | No | | Cabinet |
| Deye(Sunsynk) | SUN-SG01LP1 series | CAN | On/off-grid | Yes | Yes | V1586 | Wall mounting |
| | SUN-SG03LP1 series | CAN | On/off-grid | Yes | Yes | V1586 | Wall mounting |
| Alpha & Outback Energy | SPC III 5000-48 | N/A | Off-grid | Manual | No | | Wall mounting |
| Lux Power | LXP Hybrid | CAN | On-grid | Yes | Yes | AA1.0 | Wall mounting |
| | ACS series | CAN | On-grid | Yes | Yes | AA1.0 | Wall mounting |
| Sungrow | SH5K | CAN | On-grid | Yes | Yes | V13 | Wall mounting |
| Morningstar | TriStar MPPT in 48V | N/A | On/off-grid | PV only | No | v32b | Wall mounting |
| | TriStar MPPT 600V in 48V | N/A | On/off-grid | PV only | No | v32b | Wall mounting |
| | TriStar PWM TS-45 in 48V | N/A | On/off-grid | PV only | No | v32b | Wall mounting |
| Delios s.r.l. | DLS/C series | CAN | On/off-grid | No | Yes | A 1.30; B 1.18; C1.27 | Wall mounting |
| | DLS AC series | CAN | On/off-grid | No | Yes | A 1.30; B 1.18; C1.27 | Wall mounting |
| Ingeteam Power Technology | ISS 1Play TL M series | CAN | On/off-grid | Yes | Yes | ABH1007_D | Wall mounting |
| MLT | Oasis 448 | N/A | Off-grid | No | Yes | V2.19 | Wall mounting |
| | Oasis 648 | N/A | Off-grid | No | Yes | V2.19 | Wall mounting |
| Steca | Solarix PLI 5000-48 | N/A | Off-grid | Manual | No | | Wall mounting |
| SAJ | Sunfree series | RS485(9600) | On/off-grid | Yes | Yes | V2.031/V1.037 | Wall mounting |
| | H1 series | CAN | On/off-grid | Yes | Yes | V2.094/V1.318 | Wall mounting |

10. Compatible Inverter list

48V Energy Storage Solution (US2000 / US3000 / US2000C / US3000C / UP5000 / Phantom-S / Force-L1/L2)

| Inverter Brand | Inverter Type | Communication | Application | Key Features | | Firmware Ver | Installation |
|----------------|--|---------------|-------------|--------------|--------------|-------------------------------|---------------|
| | | | | Activation | Force Charge | | |
| SolarMax | ES series | CAN | On/off-grid | No | Yes | A 1.30; B 1.18; C1.27 | Wall mounting |
| | AC series | CAN | On/off-grid | No | Yes | A 1.30; B 1.18; C1.27 | Wall mounting |
| Growatt | SPH3000 - 6000 | CAN | On/off-grid | No | Yes | RA1.0 | Wall mounting |
| | SPF2000 - 5000 HVM-48/LVM-48P*** | RS485(9600) | On/off-grid | No | Yes | GW500.08/502.05/503.03/507.03 | Wall mounting |
| | M2000H/3000H/5000H - 48*** | RS485(9600) | On/off-grid | No | Yes | SK001.11/012.06/013.03/035.00 | Wall mounting |
| AXIOMA energy | ISPWM 5000 | N/A | On/off-grid | No | No | | Wall mounting |
| | ISMPPT BF 3000 - 5000 | N/A | On/off-grid | No | No | | Wall mounting |
| | ISGRID (BF) 3000 - 5000 | N/A | On/off-grid | No | No | | Wall mounting |
| Phocos | Any-grid PSW-H-5kW-230/48V | RS485(9600) | On/off-grid | Yes | Yes | V1.00 | Wall mounting |
| Western CO. | LEONARDO PRO 3000/48 Li (via Western LK3) | CAN | On/off-grid | Yes | Yes | V1.1 | Wall mounting |
| EFFEKTA | AX-M1 4000/5000-48(1) | RS485(9600) | On/off-grid | Yes | Yes | 54.40/74.40(1) 14.40/34.40(2) | Wall mounting |
| | AX-K1 4000/5000-48(2) | RS485(9600) | On/off-grid | Yes | Yes | 54.40/74.40(1) 14.40/34.40(2) | Wall mounting |
| Kehua | SPH5000-BL | CAN | On-grid | Yes | Yes | V1.00.013 | Wall mounting |
| INVT | BD series | CAN | On/off-grid | Yes | Yes | V1.06 | Wall mounting |
| TBB | Kinergier Pro Series: CK-II 2.0S-3.0S | CAN | On/off-grid | No | Yes | DSP: V1.03C LCD: V1.01B | Wall mounting |
| | Kinergier Pro Series: CK4.0S-8.0S | CAN | On/off-grid | No | Yes | DSP: V1.23A LCD: V1.21A | Wall mounting |
| MUST | PV1800 VHM 3KW - 5.5KW | CAN | On/off-grid | No | Yes | 1.17.06 | Wall mounting |
| Moixa | Smart Battery V4 3000 | CAN | On-grid | Yes | Yes | V2.2.1 | Wall mounting |
| | GridShare Hub | CAN | On-grid | Yes | Yes | V2.2.1 | Wall mounting |

10. Compatible Inverter list

48V Energy Storage Solution (US2000 / US3000 / US2000C / US3000C / UP5000 / Phantom-S / Force-L1/L2)

| Inverter Brand | Inverter Type | Communication | Application | Key Features | | Firmware Ver | Installation |
|----------------|----------------------------|---------------|-------------|--------------|--------------|------------------------------|---------------|
| | | | | Activation | Force Charge | | |
| MEGAREVO | RKL1 Series | CAN | On/off-grid | Yes | Yes | ARM: 1.00.28 DSP: 1.01.23 | Wall mounting |
| AISWEI | ASW3000/3680/4000/5000H -S | CAN | On/off-grid | Yes | Yes | master v610-02001-00 | Wall mounting |
| OPTI-Solar | SP5000 Brilliant series | RS485(9600) | On/off-grid | Yes | Yes | V1.00/00.32 | Wall mounting |
| | SP5000 Regal/Handy Plus | RS485(9600) | On/off-grid | Yes | Yes | V1.00/00.32 | Wall mounting |
| | SP4000/10000 Premium | RS485(9600) | On/off-grid | Yes | Yes | V1.00/00.32 | Wall mounting |
| GMDE | SolDate 3700TL+BM024 | RS485(9600) | On-grid | No | Yes | V2.0.1 | Wall mounting |

*When compatible with Victron Multi/Quattro in off-grid application via Venus-device, it is required to have a Victron MPPT or other compatible PV inverter with Victron to avoid the system getting shut down.

**When compatible with Voltronic Axpert series, only VM III and King two types are available for RS485 communication, for the rest types of Axpert only available for manual settings. When using VM III and King, only launch firmware 02.61 or higher can work with Force L1/L2.















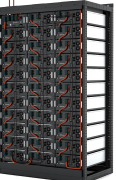


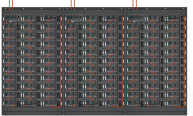


***When compatible with Growatt SPF/M series corresponding type, according to inverter logic, the depth of discharge(DoD) of battery shall be set to 80% or lower. Otherwise may lead to system shut down and need of manually recharge battery.

10.Compatible Inverter list

100 – 1000V Energy Storage Solution

| Inverter Brand | Inverter Type | Battery | Communication | Application | Key Features | | Firmware Ver | Installation |
|---------------------------|--|--------------------------------------|-----------------------------------|-------------|--------------|------------------------------|------------------------------|---------------|
| | | | | | Activation | Force Charge | | |
| Ingeteam Power Technology | ISS 1Play 3TL / 6TL | Powercube X1/X2/H1/H2 Force H1/H2 | CAN | On/off-grid | Yes | Yes | ABH1002AA ABH1003_Q(disp) | Wall mounting |
| | ISS 1Play 3TL M / 6TL M | | CAN | On/off-grid | Yes | Yes | ABH1007_A ABH1003_Q(disp) | Wall mounting |
| Solis | RHI-3P-HVES-5G series | | CAN | On/off-grid | Yes | Yes | 4002E | Wall mounting |
| Sungrow | SH5.0/6.0/8.0/10.0RT | | CAN | On/off-grid | Yes | Yes | SAPPHIRE-H_V11_V01_A | Wall mounting |
| Delios s.r.l. | DLX HV series | | CAN | On/off-grid | Yes | Yes | V3.00 | Wall mounting |
| Goodwe | EH/ET/BT/BH series | | CAN | On/off-grid | Yes | Yes | V14 | Wall mounting |
| EATON | xStorage Home 3P Series | | CAN | On/off-grid | Yes | Yes | V3.00 | Wall mounting |
| SolarMax | ES-T Series | | CAN | On/off-grid | Yes | Yes | V3.00 | Wall mounting |
| Lux Power | Hybrid HB series | | CAN | On/off-grid | Yes | Yes | | Wall mounting |
| Redback | RB-HVS(ST10000)(1) RB-HVS-AC(SB7200)(2) | | Modbus RTU | On/off-grid | Yes | Yes | V2.6(1) V2.9(2) | Cabinet |
| Sofar | HYD 10000/15000/20000 TL-3PH | | CAN | On/off-grid | Yes | Yes | FW: D0110036 DSP: V010027 | Wall mounting |
| SolaX Power | X1/X3-Hybrid HV | | CAN | On-grid | Yes | Yes | | Wall mounting |
| Sermatec | SMT-10K/30K/50K-TL-TH | | CAN | On-grid | Yes | Yes | | Wall mounting |
| Imeon Energy | 3/3.7/4.6/5HV | | CAN | On/off-grid | Yes | Yes | V1.10 | Wall mounting |
| Growatt | SPH10000TL3 | | CAN | On/off-grid | Yes | Yes | V410 | Wall mounting |
| Tsun | TSOL-H/A-3.0~6.0K-H | | CAN | On/off-grid | Yes | Yes | DSP:V1.0; ARM:V1.14 | Wall mounting |
| GMDE | TB5200TD | | CAN | On-grid | Yes | Yes | 1.0.3 | Wall mounting |
| Voltronic | Infinisolar TX-PA 30K | | Modbus RTU | On/off-grid | Yes | Yes | 2008.27.12 | Cabinet |
| ATESS | HPS30/50/100/120/150 | CAN | On/off-grid | Yes | Yes | HPS30K_150K_HV3_SV9.1. 39 | Cabinet | |
| Efacec | Battery Inverter | Powercube H1/H2/M1 | Customized with additional EMS | On/off-grid | | | Cabinet | |
| Ferroamp | EnergyHub | | | | | | | |
| Sungrow | SC series | | | | | | | |
| Sinexcel | PWS/PWG series | | | | | | | |
| Kehua | BCS series | | | | | | | |

11.Application-Overall

| Low Voltage Storage system products | | | High Voltage Storage system products | | | | | | | | |
|---|--|--|---|--|--|---------|----------|-----------------|-----------------|---------|--------------|
| RV/UP series | US /Force L series | | Powercube X/ Force Hseries | Powercube H/M Power X series | Powercube-20H/40H | | | | | | |
|   |     |    | Force-H1 X1    | H1 H2 Power X M1/M2/M3      | 20H/40H    | Back Up | Telecome | Residential ESS | Residential ESS | C&I ESS | Grid Storage |
| Back Up | Telecome | Residential ESS | Residential ESS | C&I ESS | Grid Storage | | | | | | |

THANK YOU