

HV SERIES

CUSTOMIZABLE C&I ESS BUNDLES SELECTION GUIDE



NFPA 68/69/855
Code-Compliant



UL 9540/9540A (2025)/1973
Certified Safety

WHY DO BUSINESSES CHOOSE C&I STORAGE?

- Slash Demand Charges
- Time-of-Use Optimization
- Energy Independence
- VPP Participation & Earnings

WHY CHOOSE PYTES C&I HV BATTERIES?

- Certified to UL Standards & Compliant with Local Codes
- All-Weather Durability for Extreme Temperatures and Coastal Environments
- Modular & Flexible Configurations from 25 kWh to MWh+
- Local Inventory with U.S. Based Technical Support

HV48100 8S- UL 9540 Ed.3 Certified Indoor ESS Solution

Recommended Inverter Models



Sol-Ark
30K-3P-208V



solis
S6-EH3P30K03-LV-YD-H-US
S6-EH3P30/40K-NV-YD-H-US

8S1P

Part Number	Item	Quantity
1	162002100029	30K-3P-208V
	N/A	S6-EH3P30K03-LV-YD-H-US S6-EH3P30K-NV-YD-H-US
2	150215100160	HV48100 8S Cabinet
3	151201100050	HV48100 BCU
4	151201100052	HV48100 BMU

Part Number	Item	Quantity
1	N/A	S6-EH3P40K-NV-YD-H-US
2	150215100160	HV48100 8S Cabinet
3	151201100050	HV48100 BCU
4	151201100052	HV48100 BMU

Part Number	Item	Quantity
1	162002100029	30K-3P-208V
	N/A	S6-EH3P30K03-LV-YD-H-US S6-EH3P30K-NV-YD-H-US
2	150215100160	HV48100 8S Cabinet
3	151201100050	HV48100 BCU
4	151201100052	HV48100 BMU
5	110403100136 ¹	HV C01 Combiner Box
6	110409100233 ¹	HUB OD
7	161412101352 ¹	HV48100 BCU Dry Contact Connectors

30 kW / 80 kWh



40 kW / 80 kWh



30 kW / 120 kWh



Inverter	Battery ²	Rated Grid Voltage	Rated AC Output	Storage Capacity	Estimate Backup Time	Max. Inverter Parallel
1x 30K-3P-208V	2 x HV48100 8S	120/208V	30 kW	80 kWh	2.7 H	10
1x S6-EH3P30K03-LV-YD-H-US	2 x HV48100 8S	208V/240V	26.5 kW / 30 kW	80 kWh	3 H / 2.7H	6
1x S6-EH3P30K-NV-YD-H-US	2 x HV48100 8S	480V	30 kW	80 kWh	2.7 H	6
1x S6-EH3P40K-NV-YD-H-US	2 x HV48100 8S	480V	40 kW	80 kWh	2 H	6
1x 30K-3P-208V	3 x HV48100 8S	120/208V	30 kW	120 kWh	4 H	10
1x S6-EH3P30K03-LV-YD-H-US	3 x HV48100 8S	208V/240V	26.5 kW / 30 kW	120 kWh	4.5 H / 4 H	6
1x S6-EH3P30K-NV-YD-H-US	3 x HV48100 8S	480V	30 kW	120 kWh	4 H	6

1. Only needed if each inverter has more than 2 battery cabinets.V

2. Up to 6 Battery cabinets (240 kWh) per Inverter. Each inverter must have same quantity of battery cabinets.

HV48100 12S- UL 9540 Ed.3 Certified Indoor ESS Solution

Recommended Inverter Models



Sol-Ark
60K-3P-480V



solis
S6-EH3P30K03-LV-YD-H-US
S6-EH3P30/50/60K-NV-YD-H-US

12S1P

Part Number	Item	Quantity
1	N/A S6-EH3P30K03-LV-YD-H-US S6-EH3P30K-NV-YD-H-US	1 pc
2	110403100125 HV48100 12S Cabinet	1 pc
3	151201100050 HV48100 BCU	1 pc
4	151201100052 HV48100 BMU	12 pcs

Part Number	Item	Quantity
1	N/A S6-EH3P50K-NV-YD-H-US	1 pc
2	110403100125 HV48100 12S Cabinet	2 pcs
3	151201100050 HV48100 BCU	2 pcs
4	151201100052 HV48100 BMU	24 pcs

Part Number	Item	Quantity
1	162002100119 N/A 60K-3P-480V S6-EH3P60K-NV-YD-H-US	1 pc
2	110403100125 HV48100 12S Cabinet	2 pcs
3	151201100050 HV48100 BCU	2 pcs
4	151201100052 HV48100 BMU	24 pcs

Part Number	Item	Quantity
1	162002100119 N/A 60K-3P-480V S6-EH3P60K-NV-YD-H-US	1 pc
2	110403100125 HV48100 12S Cabinet	3 pcs
3	151201100050 HV48100 BCU	3 pcs
4	151201100052 HV48100 BMU	36 pcs
5	110403100136 ¹ HV C01 Combiner Box	1 pc
6	110409100233 ¹ HUB OD	1 pc
7	161412101352 ¹ HV48100 BCU Dry Contact Connectors	3 pcs

Inverter	Battery ²	Rated Grid Voltage	Rated AC Output	Storage Capacity	Estimate Backup Time	Max. Inverter Parallel
1x S6-EH3P30K03-LV-YD-H-US	1x HV48100 12S	208 V / 240 V	60 kW	60 kW	2.3 H / 2 H	6
1x S6-EH3P30K-NV-YD-H-US	1x HV48100 12S	480 V	60 kW	60 kW	2 H	6
1x S6-EH3P50K-NV-YD-H-US	2 x HV48100 12S	480 V	50 kW	120 kWh	2.4 H	6
1x S6-EH3P60K-NV-YD-H-US	2 x HV48100 12S	480V	60 kW	120 kWh	2 H	6
1x 60K-3P-480V	2 x HV48100 12S	277 V / 480V	60 kW	120 kWh	2 H	10
1x 60K-3P-480V	3 x HV48100 12S	277 V / 480 V	60 kW	180 kWh	3 H	10
1x S6-EH3P60K-NV-YD-H-US	3 x HV48100 12S	480V	60 kW	180 kWh	3 H	6



1. Only needed if each inverter has more than 2 battery cabinets.

2. Up to 6 Battery cabinets (360 kWh) per Inverter. Each inverter must have same quantity of battery cabinets.

HV48100 15S- UL 9540 Ed.3 Certified Indoor ESS Solution

Recommended Paired Inverter Models



Sol-Ark
30K-3P-208V



S6-EH3P30K03-LV-YD-H-US
S6-EH3P30K-NV-YD-H-US

7S2P

Series Number	Bill of Materials	Sub-total
1	162002100029	30K-3P-208V
	N/A	S6-EH3P30K03-LV-YD-H-US S6-EH3P30K-NV-YD-H-US
2	110403100116	HV48100 15S Cabinet
3	151201100050	HV48100 BCU
4	151201100052	HV48100 BMU



Series Number	Bill of Materials	Sub-total
1	162002100029	30K-3P-208V
	N/A	S6-EH3P30K03-LV-YD-H-US S6-EH3P30K-NV-YD-H-US
2	110403100116	HV48100 15S Cabinet
3	151201100050	HV48100 BCU
4	151201100052	HV48100 BMU
5	110403100136 ¹	HV C01 Combiner Box
6	110409100233 ¹	HUB OD
7	161412101352 ¹	HV48100 BCU Dry Contact Connectors



Inverter	Battery ²	Rated Grid Voltage	Rated AC Output	Storage Capacity	Estimate Backup Time	Max. Inverter Parallel
1×30K-3P-208V	1×HV48100 15S	120/208V	30 kW	70 kWh	2.3 H	10
1×S6-EH3P30K03-LV-YD-H-US	1×HV48100 15S	208V/240V	26.5 kW / 30 kW	70 kWh	2.6 H / 2.3 H	6
1×S6-EH3P30K-NV-YD-H-US	1×HV48100 15S	480V	30 kW	70 kWh	2.3 H	6
1×30K-3P-208V	2×HV48100 15S	120/208V	30 kW	140 kWh	4.7 H	10
1×S6-EH3P30K03-LV-YD-H-US	2×HV48100 15S	208V/240V	26.5 kW / 30 kW	140 kWh	5.3 H / 4.7 H	6
1×S6-EH3P30K-NV-YD-H-US	2×HV48100 15S	480V	30 kW	140 kWh	4.7 H	6

1. Only needed if each inverter has more than 1 battery cabinet (2P7S).

2. Up to 3 Battery cabinets (210 kWh) per Inverter. Each inverter must have same quantity of battery cabinets.

HV48100 SE – UL 9540 Ed.3 Certified Outdoor ESS Solution

* Fire Suppression System Integrated

Recommended Paired Inverter Models

7S2P



Sol-Ark

30K-3P-208V



solis

S6-EH3P30K03-LV-YD-H-US
S6-EH3P30K-NV-YD-H-US

12S1P



Sol-Ark

60K-3P-480V



solis

S6-EH3P50/60K-NV-YD-H-US

7S2P

Series Number	Bill of Materials	Sub-total
1	162002100029	30K-3P-208V
	N/A	S6-EH3P30K03-LV-YD-H-US S6-EH3P30K-NV-YD-H-US
2	TBD	HV48100 SE Cabinet (7S2P-BMU and BCU Included)

12S1P

Series Number	Bill of Materials	Sub-total
1	162002100119	60K-3P-480V
2	TBD	HV48100 SE Cabinet (12S1P-BMU and BCU Included)

Series Number	Bill of Materials	Sub-total
1	162002100119	60K-3P-480V
2	TBD	HV48100 SE Cabinet (12S1P-BMU and BCU Included)
3	110403100136 ¹	HV C01 Combiner Box

14S1P

Series Number	Bill of Materials	Sub-total
1	N/A	S6-EH3P50K-NV-YD-H-US
2	TBD	HV48100 SE Cabinet (14S1P-BMU and BCU Included)

Series Number	Bill of Materials	Sub-total
1	N/A	S6-EH3P60K-NV-YD-H-US
2	TBD	HV48100 SE Cabinet (14S1P-BMU and BCU Included)

Series Number	Bill of Materials	Sub-total
1	N/A	S6-EH3P60K-NV-YD-H-US
2	TBD	HV48100 SE Cabinet (14S1P-BMU and BCU Included)
3	110403100136 ¹	HV C01 Combiner Box

30 kW / 70 kWh



60 kW / 120 kWh



60 kW / 180 kWh



50 kW / 140 kWh



60 kW / 140 kWh



60 kW / 215 kWh



Inverter	Battery ²	Rated Grid Voltage	Rated AC Output	Storage Capacity	Estimate Backup Time	Max. Inverter Parallel
1x30K-3P-208V	1 x HV48100 SE (2P7S)	120/208V	30 kW	70 kWh	2.3 H	10
1xS6-EH3P30K03-LV-YD-H-US	1 x HV48100 SE (2P7S)	208V/240V	26.5 kW / 30 kW	70 kWh	2.6 H / 2.3 H	6
1xS6-EH3P30K-NV-YD-H-US	1 x HV48100 SE (2P7S)	480V	30 kW	70 kWh	2.3 H	6
1x60K-3P-480V	2 x HV48100 SE (1P12S)	277 V / 480 V	60 kW	120 kWh	2 H	10
1x60K-3P-480V	3 x HV48100 SE(1P12S)	277 V / 480 V	60 kW	180 kWh	3 H	10
1xS6-EH3P50K-NV-YD-H-US	2 x HV48100 SE (1P14S)	480V	50 kW	140 kWh	2.8 H	6
1xS6-EH3P60K-NV-YD-H-US	2 x HV48100 SE (1P14S)	480V	60 kW	140 kWh	2.33 H	6
1xS6-EH3P60K-NV-YD-H-US	3 x HV48100 SE (1P14S)	480V	60 kW	210 kWh	3.5 H	6

1. Only needed if each inverter has more than 1 battery cabinet (7S2P) / 2 battery cabinets (14S1P/12S1P)

2. 7S2P: Up to 3 Battery cabinets (210 kWh) per Inverter. Each inverter must have same quantity of battery cabinets.
 12S1P: Up to 6 Battery cabinets (360 kWh) per Inverter. Each inverter must have same quantity of battery cabinets.
 14S1P: Up to 6 Battery cabinets (420 kWh) per Inverter. Each inverter must have same quantity of battery cabinets.

HV48300SE MAX – UL 9540 Ed.3 Certified Outdoor ESS Solution

* Fire Suppression System Integrated

Recommended Paired Inverter Models

12S1P	14S1P	15S1P
 <p>60K 60K-3P-480V</p>	 <p>S6-EH3P60K-NV-YD-H-US</p>	 <p>100K-3P-480V Coming Soon</p>  <p>125 K</p>

Series Number	Bill of Materials	Sub-total	
1	162002100119	60K-3P-480V	1pc
2	110407100160	HV48300SE MAX (12S1P - BMU and BCU Included)	1pc

60 kW / 192 kWh



Series Number	Bill of Materials	Sub-total	
1	N/A	S6-EH3P60K-NV-YD-H-US	1pc
2	110407100160	HV48300SE MAX (14S1P - BMU and BCU Included)	1pc

60 kW / 225 kWh



Inverter	Battery ²	Rated Grid Voltage	Rated AC Output	Storage Capacity	Estimate Backup Time	Max. Inverter Parallel
1 × 60K-3P-480V	1 × HV48300SE MAX(12S1P)	277 V / 208 V	60 kW	192 kWh	3.2 H	10
1 × S6-EH3P60K-NV-YD-H-US	1 × HV48300SE MAX(14S1P)	480 V	60 kW	225 kWh	3.75 H	6

1. Configurations are flexible and can be expanded to MWh+. Please contact Pytes to discuss your specific requirements.

Key Accessories

110403100136 – HV C01 Combiner Box

- 16.93 x 24.41 x 9.33 inch / 430 x 620 x 237 mm, 55 lb / 25 kg
- IP65 outdoor rated
- Integrated Busbar (300 Adc, 1000 Vdc rated) and Breaker (200 Adc, 1000 Vdc rated)
- 6 sets of M6 studs for battery, 3 sets of M6 studs for inverter
Combiner box for the HV series batteries



110409100233 – HUB OD

- Communication HUB for multiple battery cabinet expansion
- 22.05x16.77x6.69 inch / 560 x 426 x 170 mm
- IP 65 outdoor rated
- Includes Hub and 48V DC power supply



110409100233 – Dry Contact Connector

- Required for each HV48100 BCU if HUB OD is used



Where to Buy



Inverter Compatibility List

