

Sol-Ark with ETB Controller



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30K 208VAC / L3 HVR Outdoor

Available Configurations

ESS Power	ESS Capacity
30 kW	60 kWh
30 kW	120 kWh
30 kW	180 kWh
30 kW	240 kWh
30 kW	300 kWh
30 kW	360 kWh

60K 480VAC / L3 HVR Outdoor

Available Configurations

ESS Power	ESS Capacity
60 kW *	60 kWh
60 kW	120 kWh
60 kW	180 kWh
60 kW	240 kWh
60 kW	300 kWh
60 kW	360 kWh

*The 60/60 is rated at 30kW max power in AC coupled mode.

Note: Each of these options can be stacked up to 6 units for additional configurations. E.g. with 6 units of 30/240 you get 30kW / 1440 kWh.

Sol-Ark - Fully Integrated ESS

- ✓ 10-year standard warranty on entire Energy Storage System
- ✓ Easy to assemble and factory tested to reduce on-site work and cost.
- ✓ Fully integrated PCS and EMS.
- ✓ Back-up and Resiliency control software (when applicable).
- ✓ No battery maintenance is required (aside from routine cleaning); only the HVAC units on the equipment require periodic maintenance.

ETB Software Services

- ✓ ETB Controller Software Licenses.
- ✓ ETB Monitor Software Subscription (term to be defined).
- ✓ Optional add-on services available upon request.

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Scan to learn more about modeling these programs or contact your ETB sales rep.

FAQs

1. What are the lead times for the products?

Please contact your Energy Toolbase Regional Account Manager for the most accurate lead times.

2. Who manufactures the PCS & battery cells & what is the cell chemistry?

Sol Ark's product offering is a fully integrated ESS designed by Sol-Ark and manufactured to Sol-Ark specifications. The Sol-Ark L3 is made by Sol-Ark's contract manufacturer, one of the top five LFP manufacturers in the world. The batteries are LiFePO4 chemistry. The product is a vertically integrated, whole solution including the inverter, battery, and HVAC, all designed and manufactured by the same OEM in Asia.

3. What UL Certifications does the ESS have?

The ESS has the following UL Certifications: UL 1973, UL9540, UL9540a, UL1741SB, UL 1741 PCS-CRD

4. Can the unit provide back-up power or resiliency capabilities?

Yes, the unit is fully microgrid-capable.

5. What are response & replacement times on breaks or malfunctions?

Please see the limited warranties:

[Sol-Ark-30 K-3 P-480V - Limited Warranty \(.pdf\)](#)

[Sol-Ark-60 K-3 P-480V - Limited Warranty \(.pdf\)](#)

6. How long is the warranty & what does it cover?

10 years: Battery (basic product warranty/performance guarantees measured in energy throughout).

10 years: Inverter (power electronics, etc.)

Please see the limited warranties:

[Sol-Ark-30 K-3 P-480V - Limited Warranty \(.pdf\)](#)

[Sol-Ark-60 K-3 P-480V - Limited Warranty \(.pdf\)](#)

7. What is battery degradation?

Please see the limited warranties:

[Sol-Ark-30 K-3 P-480V - Limited Warranty \(.pdf\)](#)

[Sol-Ark-60 K-3 P-480V - Limited Warranty \(.pdf\)](#)

8. Does the product come with HVAC &/or fire suppression?

Yes, the product comes with fire suppression. The L3 HVR (outdoor solution) is air-cooled/ heated inside the cabinet by HVAC (each module has its own fan for improved airflow - standard in all HVR series).



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9. What is the physical size of the unit(s)?

L3 BESS - 480V L3 HVR-60KWH-60K Outdoor (W x D x H): 76 x 107 x 226 cm (30 x 42 x 89 in)	L3 BESS - 280V L3 HVR-60KWH-30K Outdoor (W x D x H): 76 x 107 x 226 cm (30 x 42 x 89 in)	Inverter 60K-3P-480V (W x D x H): 52.8 x 29.5 x 89.4 cm (20.8 x 11.6 x 35.2 in)
L3 BESS - 480V L3 HV-60KWH-60K Indoor (W x D x H): 58 x 58 x 218 cm (23 x 23 x 86 in)	L3 BESS - 280V L3 HV-40KWH-30K Indoor (W x D x H): 58 x 58 x 163 cm (23 x 23 x 64 in)	Inverter 30K-3P-208V (W x D x H): 52.8 x 29.5 x 89.4 cm (20.8 x 11.6 x 35.2 in)

10. What are the O&M costs? Is there an O&M requirement for the asset owner?

Sol-Ark does not offer O&M services; offered by contractors only. As long as you are cycling the batteries properly per the manual, then no maintenance. However, there is a maintenance schedule published for the HVR mainly being an inspection of the air conditioning, which may require annual cleaning depending on how dusty the environment.

11. Does Sol-Ark and/or ETB provide commissioning support?

Energy Toolbase provides commissioning support for ETB Controller systems. Sol-Ark does not provide commissioning support for hardware. It is recommended that you [Enroll in Sol-Ark University here](#) to learn more about the unit.

12. Can the unit be AC or DC coupled?

Both AC and DC coupled.

13. Can the units be installed in marine environments?

If the units are installed in Puerto Rico, Hawaii, Bahamas, or coastal areas, yes. It is recommended that you take standard precautions in any marine environment. It is also recommended, but not required, to install indoors, in a climatized room. If it is outdoor, have a standard salt anti-corrosive maintenance plan in place.



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