

SOL-ARK 15K & RENON XCELLENT PLUS



The ideal choice for home backup power as an **easy turnkey solution for homeowners seeking energy independence, resilience, and long-term cost savings.**

Pairing the **Sol-Ark 15K-2P Hybrid Inverter** with the **Renon Xcellent Plus Battery** delivers a robust, whole-home backup power solution built for performance, resilience, and scalability.

Sol-Ark's 15K is designed to optimize your home's energy usage with powerful AC output, built-in TOU functionality, DC to DC architecture to maximize batteries, and seamless grid-tied and off-grid operation. When matched with the **Renon Xcellent Plus**, featuring **16 kWh of usable energy**, optimized space utilization for a more compact footprint, and simple energy storage expansion, this system excels in powering large loads, reducing grid dependence, and providing peace of mind during outages.

| Feature | Sol-Ark 15K-2P | Renon Xcellent Plus | Combined System Advantage |
|---------------------------------|---|---|--|
| Ideal Applications | Whole home backup power; off-grid energy independence | Energy backup, EV integration | True whole-home backup with time-of-use savings and scalable energy independence |
| Battery Compatibility | Compatible with UL-certified 48V lithium batteries | Sol-Ark optimized; Compatible with most hybrid inverters | Plug-and-play architecture simplifies integration and ensures maximum efficiency |
| Backup Performance | <5ms transfer speed; UPS-grade | Maintains power to critical and large circuits | Reliable backup for sensitive electronics and critical home functions |
| Installation Flexibility | Wall-mount inverter with 200 A passthrough | Wall or floor-mount; indoor/outdoor (IP65), comes with custom J-box | Flexible deployment across garage, utility room, or exterior wall |
| Smart Monitoring | Built-in touchscreen + remote monitoring platform | RS485/CAN/WiFi/Bluetooth + app/web tools | Unified control and visibility for both inverter and battery performance |





| | Sol-Ark 15K-2P (15/13kW) + Renon Xcellent Plus 16.1kWh (10.2kW) | Tesla PW3 (15.4/11.5kW) + Batt 13.5kWh (11.5kW) | EG4 FlexBoss21 (16/12kW) + 14.3kWh (7kW) | FranklinWH aPower 2 (10kW) 15.0kWh (10kW) |
|-------------------------|---|--|---|---|
| Power | 15kW AC with solar, 13kW AC batts | 11.5kW AC, configurable up to 15.4kW | 16kW AC with solar, 12kW AC batts | 10kW AC |
| Grid Passthrough | 200A | 200A (Requires Tesla Gateway) | 90A from FlexBoss; 200A requires GridBoss | 200A (Requires the aGate) |
| Benefits | <ul style="list-style-type: none"> Over 12 years in hybrid inverter space 15K released 3 years ago Top-Rated Customer Support 7 days a week Up to 6 PV strings If EMP Hardened, warranties for lightning strikes Doesn't require excessive equipment for features Versatile Gen port | <ul style="list-style-type: none"> Industry Leader Great Design Easy-to-use TOU programming VPP available Backup switch is simplest backup solution 13.5 kWh of battery back up included Comes with RGM | <ul style="list-style-type: none"> GridBoss has load management and can combine multiple EG4 inverter models together GridBoss lessens the amount of AC wires needed for parallel systems | <ul style="list-style-type: none"> Black Start, starts AC PV with low batts Comes with 15kWh 15 Year Warranty |
| Drawbacks | <ul style="list-style-type: none"> No built-in RSD transmitter option | <ul style="list-style-type: none"> Not designed for off-grid Full warranty requires always online Months long delivery time Backup Switch not permitted by all AHJs Long technical support wait times Requires \$6K Tesla Expansion Battery for full home backup (Total: \$15,300) | <ul style="list-style-type: none"> Company started in 2020, and only 3 years of selling inverters System released in Q4 2024 Ranks lower in Customer Satisfaction Only 4 PV strings EG4 GridBoss required for several features No LCD screen which CEO has said to be a "point of failure" Link | <ul style="list-style-type: none"> 5 Years in business < 50 US Employees Weighs over 350lbs, requires multiple people to service Full warranty requires always online Battery coupled inverter increases battery scaling costs Released in Q4 2024 |
| Price | <ul style="list-style-type: none"> \$6,250 15K-2P Inverter \$3,477 Renon Xcellent Plus \$9,727 Total | <ul style="list-style-type: none"> \$8,200 PowerWall 3 \$900 MID \$200 Required Accessories \$9,100 Total | <ul style="list-style-type: none"> \$4,199 FlexBoss21 \$2,000 GridBoss \$84 External LCD Screen \$4,000 EG4 All Weather Battery \$10,283 Total | <ul style="list-style-type: none"> \$11,500 Inverter \$2,000 aGate MID \$13,500 Total |
| Total \$/kW Batt | \$954 | \$791 | \$1469 | \$1,350 |
| Total \$/kWh | \$604 | \$674 | \$719 | \$900 |