

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 Weights 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