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Comparison: FranklinWH aPower 2 VS. Tesla Powerwall 3

When choosing a home energy storage solution, it's crucial to understand the differences in key features. The FranklinWH aPower 2 and Tesla Powerwall 3 both offer energy storage and backup power, but they vary in a number of critical areas. The table below provides a side-by-side comparison to help you make an informed decision.

Feature	FranklinWH aPower 2	Tesla Powerwall 3
Battery Stacking	Stacks up to 15 units per aGate intelligent controller for 225 kWh total capacity, and max power of 38.4 kW, providing both increased power and capacity.	Limited to 11.5 kW discharge rate, requires multiple expansion kits for added capacity.
Energy Storage	10.5% more usable energy (15 kWh per battery with an additional 1 kWh reserve for black start).	13.5 kWh usable storage with no reserved capacity for system health.
AC vs. DC Coupling	AC-coupled architecture for greater flexibility, redundancy, and easier retrofits.	DC-coupling limits flexibility and requires integrated inverters.
Smart Circuits	True whole-home energy management with app-based control over loads and customizable scheduling.	Requires third-party solutions for load control.
Black Start Capabilities	Off-grid capable, automatically restarts the system after grid outages, with Main Load Relay for better performance.	Lacks automatic black-start capability.
Backup Performance	Provides higher backup performance, especially for large homes, and reliable power in off-grid situations.	Lower backup performance compared to aPower 2 in off-grid scenarios.
Generator Integration	Supports any 240 V, 60 Hz generator. Provides power to the home while recharging aPower batteries.	Compatible with only select generators.

Feature	FranklinWH aPower 2	Tesla Powerwall 3
V2L Integration	Provides V2L functionality without requiring EVSE, allowing EVs to power the home.	Lacks V2H (Powershare) integration with Powerwall 3.
VPP Performance	Engineered for VPPs with higher storage capacity and superior warranty.	Not specifically engineered for VPPs, lower storage capacity.
Better TOU Support	Increased capacity allows more savings during peak periods and higher ROI.	Limited capacity and peak period savings.
Increased Energy Harvest - aPbox	Simple expansion of PV systems, lower-cost design solution, optimized for specific interconnection types. Curtail additional power to maintain higher NEM rates.	DC-coupling limits flexibility and requires integrated inverters.
System Warranty	15-year warranty, 60 MWh throughput, no cycle count limit.	10-year warranty, 38 MWh throughput, with cycle count restrictions.
Single Line Diagram Review	Free review for certified installers, optimizing system design and permitting.	No similar service offered.
Customer Service	12-hour, 7-day support, video commissioning help, on-site technicians across U.S., including Hawaii and Puerto Rico.	Provides support but lacks on-site troubleshooting and personalized service.

In conclusion, both the FranklinWH aPower 2 and Tesla Powerwall 3 offer valuable features for energy storage and home backup. However, aPower 2 stands out in areas such as flexibility, storage capacity, and system reliability, providing a more customizable and cost-effective solution for homeowners. By considering your specific energy needs and preferences, you can make the best choice for your home's energy system.

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