



		Schneider/Rolls LFP	Tesla Powerwall	Tesla 2X Powerwall
AC Electrical	continuous AC (watts)	6800	5000	10000
	peak AC (watts)	12000	7000	14000
	max (overcurrent) AC	60A	30A	60A
	extra hardware required for backup	no	yes - backup gateway	yes - backup gateway
	transfer time	20ms (instantaneous)	10 sec	10 sec
	generator input	yes	no	no
	charge from generator	yes	no	no
DC Electrical	max charge ADC	140A	100A	200A
	storage capacity (kWh)	26.6	13.5	27
	solar architecture	DC or AC coupled	AC coupled	AC coupled
Other	warranty	10 year	10 year	10 year
	internet connection required for warranty	no	yes	yes
	whole system monitoring	yes	no - battery/inverter only, no solar	no - battery/inverter only, no solar
	field serviceable	yes	no - replace only	no - replace only

HIGHLIGHTS:

- Tesla Powerwall is designed and configured to shift time of use and offset peak loads only. It is not designed or suitable to run without grid-connected power (ex. off-grid applications).
- Rolls S48-6650LFP ESS & Schneider XW+ Pro combination offers the best solution for customers seeking a scalable whole home backup power with instantaneous transfer time, generator input for emergency recharge, DC coupling compatibility for solar charging & serviceability.
- Nearly the same AC peak power of two (2) Tesla Powerwall units (14000W) can be supplied with a single Schneider XW+ Pro and Rolls LFP S48-6650LFP ESS (12000W)
- DC coupled architecture will be less expensive to install, more efficient and have better system-level monitoring.
- Cost of Tesla Backup Gateway is unknown.
- Powerwall uses NMC (Nickel Manganese Cobalt) cells. Rolls LFP ESS models use lithium iron phosphate (LiFePO₄) cells which are more tolerant to full charge conditions and performs comparably better when kept at high voltage for a prolonged period.
- Rolls LFP (LiFePO₄) cells do not generate heat or require ventilation or cooling and do not pose the same risk of thermal runaway characteristic of lithium cobalt-based batteries.
- Powerwall supply and availability is known to be irregular as Tesla's priority has been vehicle sales. Sourcing supply on schedule is often a challenge.
- Powerwalls are not field serviceable and require a 100% up-time internet connection to maintain their warranty.