

battery backup vs. gas generator

Refer to the chart below for a comparison of battery backup versus a conventional generator, including a review of factors like cost, fuel supply, size, features, and maintenance.

Tesla Powerwall 2



size:	13.5 kW
cost:	\$14,900 installed
fuel source:	solar / electric
fuel consumption:	none
voltage:	120/240 single-phase
surge watts:	7,000 peak
rated Amps:	30 Amps
decibel rating:	0
transfer switch:	automatic
warranty:	10 years
rechargeable from solar:	yes
monitoring app:	yes
indoor/outdoor:	either
maintenance:	none
tax credit:	-\$3,630
state rebate:	-\$2,800
10-yr operating costs:	\$0
10-yr energy savings:	-\$6,670

Total adjusted est. 10-year cost of ownership:* **\$1,800**

* Total adjusted est. lifetime cost based on adding solar for 100% energy offset, and a single Powerwall. Does NOT take into consideration inflation, or any increase/decrease in grid energy rates, which would likely increase the peak shaving savings.

Gas Generator



size:	13kW
cost:	\$8,000 installed
fuel source:	LP, natural gas, diesel
fuel consumption:	1.6 gal / hr
voltage:	120/240 single-phase
surge watts:	13,000 peak
rated Amps:	54.2 Amps
decibel rating:	65
transfer switch:	automatic
warranty:	5 year, 2,000 hour limited
rechargeable from solar:	no
monitoring app:	some models
indoor/outdoor:	outdoor only
maintenance:	yearly
tax credit:	NO
state rebate:	NO
10-yr operating costs:	\$1,300
10-yr energy savings:	\$0

Total adjusted est. 10-year cost of ownership:** **\$9,300**

** Total adjusted est. lifetime cost, assuming the generator continues to run for five additional years beyond warranty expiration, with no service or repairs needed beyond regular maintenance.