



OPERATING MODES

PEAK SHIFT

Battery discharge based on drop of PV output or user programmable schedule

LOAD SHAVE

Monitors AC current and uses battery to limit peak current draw

BACK-UP

Automatic transfer to grid-isolation to power critical loads when grid fails



8.6 KWH RESIDENTIAL

Energy Storage System Specifications

PHYSICAL		
Dimensions		43"x22"x17"
Module weight (qty 4)		50 lbs
Enclosure weight		80 lbs
Total installed weight		280 lbs
Color		White or Black
Enclosure material		Aluminum
Enclosure rating		NEMA 3R
Maintenance		None
Operating temperature		-10°C to 50°C
Installation		Wall-mounted
Modular assembly - no special equipment stackable to 17.2kWh		
LED State of Charge gauge		
LCD for battery and system metrics		

ELECTRICAL		
Nominal voltage		50V
Capacity		172Ah
Rated energy / continuous power		8.6kWh / 5.5kW
Rated power at 2 hour discharge (per CA SGIP)		4.0kW
Battery life		10 years minimum
Max discharge rate		140A
Max charge rate		80A
Round trip efficiency of battery charge/discharge cycle		98%
Internal cell balancing		

CONNECTIVITY		
	Web-enabled customer interface via cellular modem	
	Remote firmware updates	
	Cloud-based monitor and control	
	Designed to support smart grid and home energy management systems	

CERTIFICATIONS		
Cell safety		UL1642
Main contactor		UL508
Automotive grade current sensor		IEC60068
Stainless steel 3/8" main terminals		UL1059
Battery module transportation certified		UN38.3

SAFETY PROTECTIONS		
	Over voltage shutdown	
	Over temperature shutdown	
	Under voltage shutdown	
	8 independent temperature measurements:	
	Reverse polarity protection	
	3-level redundancy on over voltage control	
	Autonomous operation with no gap in safety coverage if connectivity is lost	
	On board diagnostics	

ORIGIN

- ✓ Designed and Built in USA 
- ✓ Enclosure Made in USA 
- ✓ Highest quality Samsung Lithium Ion NMC cells

APPLICATIONS

- ▶ Residential & light commercial grid tied energy storage
- ▶ New & existing renewable energy installations (AC or DC coupled)

Compatible inverters :
SCHNEIDER CONEXT XW+ 5548 NA

ABOUT ADARA POWER

Adara Power (formerly JuiceBox Energy) is a Silicon Valley based company that develops advanced energy storage and management systems to meet the growing demand for renewable energy storage. The company delivers innovative clean technologies to its customers in order to reduce both energy costs and CO2 emissions and accelerates the transition to a resilient grid.