Ablerex
every moment counts

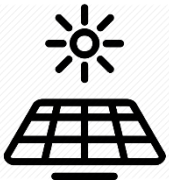
EnerSalviS

ESS

EnerSalviS is an Energy Storage System (ESS)

that charges using electricity generated from solar panels, or when utility rates are low, and powers your loads in the evening. It also fortifies your home and office loads against power outages by providing a backup electricity supply. Compact and easy to install, EnerSalviS offers independence from the utility grid and the security of an emergency backup.

Battery at Night



Solar Charged Battery

Day & Night Rates Saving

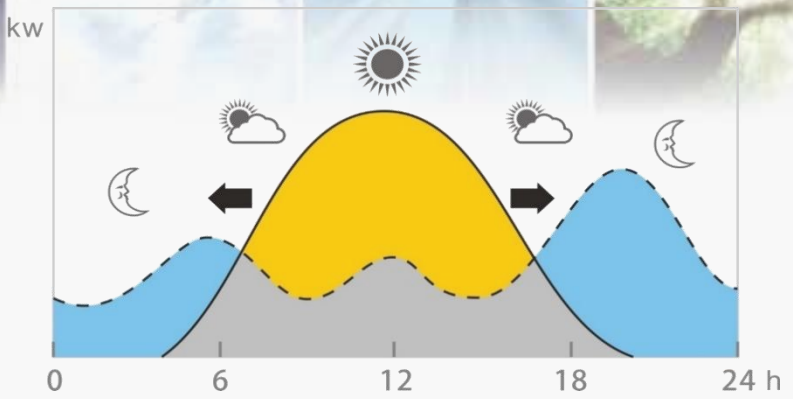
Backup Power

Why EnerSalviS

Energy Self-Consumption

Daytime:
Charge using electricity generated from solar panels.

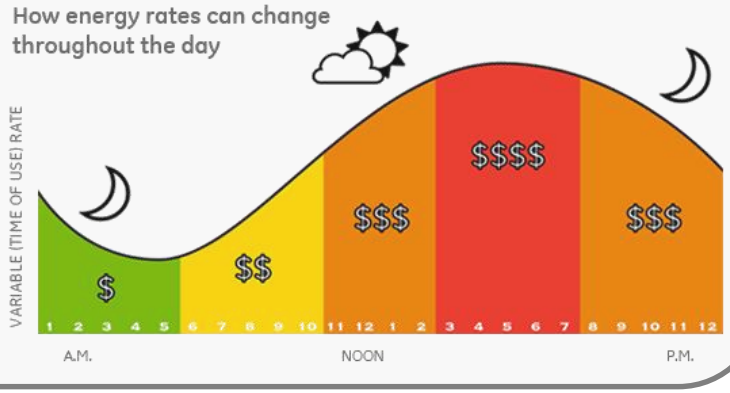
Nighttime:
Use the stored electricity to power the loads in the evening.



Peak Rates Savings

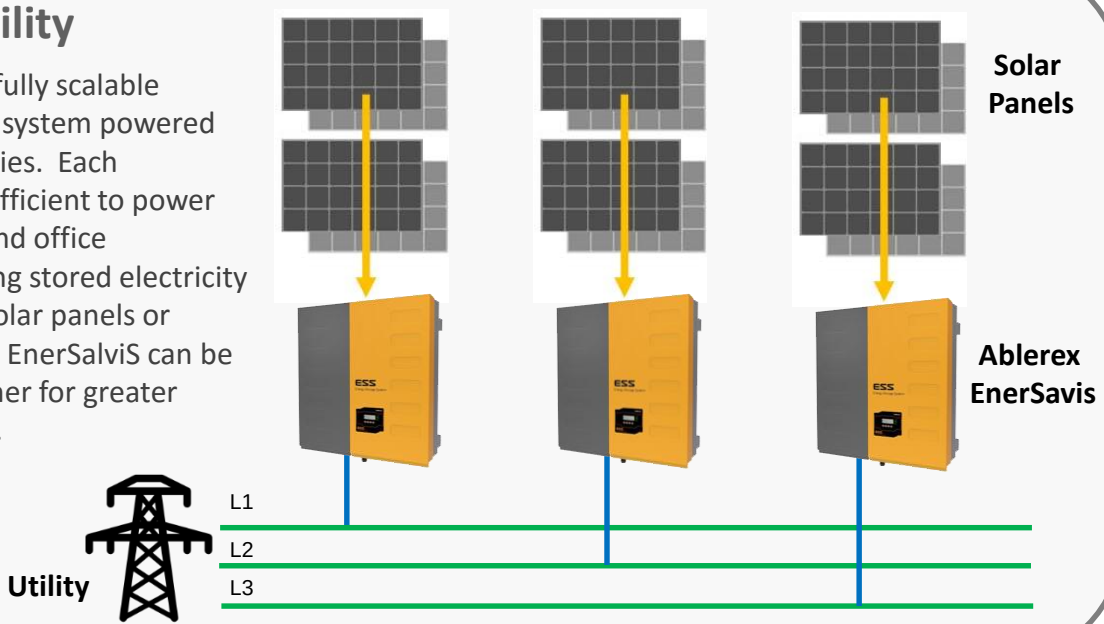
Off-Peak Rates
Charge the EnerSalviS during electricity Off-peak rate hours

On-Peak Rates
Use the stored electricity from EnerSalviS during peak rates hours



Scalability

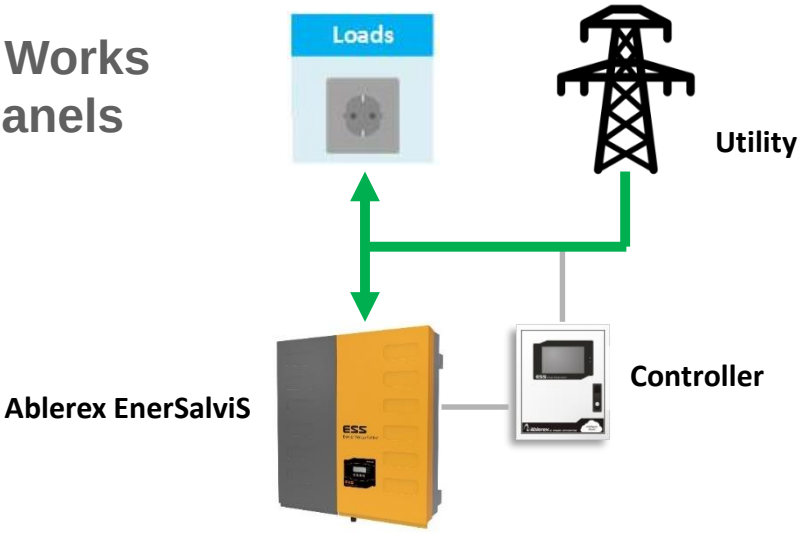
EnerSalviS is a fully scalable energy storage system powered by Li-ion batteries. Each EnerSalviS is sufficient to power typical home and office application using stored electricity generated by solar panels or utility. Multiple EnerSalviS can be installed together for greater capacity needs.



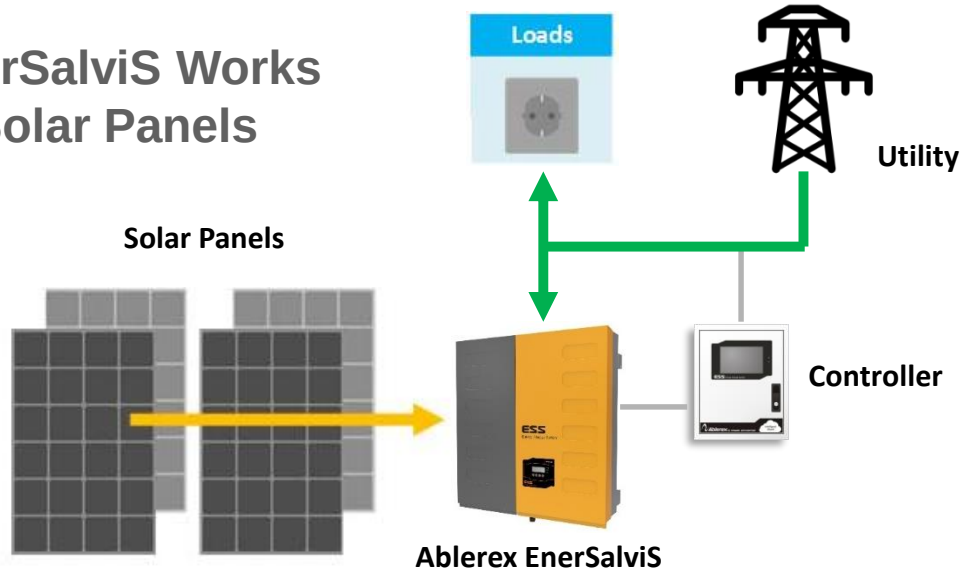
Battery Module

Every EnerSalviS comes with 6.0kWh Li-ion battery module. Module architecture and onboard power electronics optimize performance across the array and enable easy extension (up to 12kWh) and swapping.

How EnerSalviS Works without Solar Panels



How EnerSalviS Works with Solar Panels



Technical Specification		EnerSalviS ESS
DC INPUT	Nominal DC Power	5000 W
	DC Voltage Range	360 – 500 VDC
	Max. DC Input Current Per MPPT	13A
	MPPT Range	150 – 450 VDC
	MPPT Trackers	2
AC OUTPUT	Nominal AC Input Power	4600 W
	Nominal AC Output Voltage, Frequency, Voltage Range	230 Vac, 50/60 Hz, 184-264 Vac
	AC Output Current Range	20 – 21.7 A
	Current Distortion	Total Harmonic Current: Less than 3%
Battery Module	Manufacturer	Panasonic / Samsung
	Battery Type & Capacity	Li-ion, 6.0 kWh
	Battery Voltage Range	51.2 – 54.6 VDC
	Max. Charge / Discharge Power	3000 W
	Max. Battery Discharge Current	55 A
Efficiency	Inverter Peak Efficiency	97.1%
Physical	Dimension (H × W × D), Weight	794 × 1146 × 231mm, 90 Kg (Battery module included)
	Protection Index	IP65
	Mounting	Wall Mount (mounting bracket included)
	Communication Interface	RS485
Environmental	Operating Temperature	0~40°C
	Operating Humidity	0~95% (without condensation)
Standards and Certifications	Grid	VDE0126-1, VDE-AR-N 4105
	Safety	EN 62109-1, EN 62109-2, IEC 61010-1
	EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12, IEC 61236-1
	Warranty	5 years full + 5 years prorated usable energy

Technical Specification	ESS-MET
Display	7inch Resistive Touch Screen
Display Operating System	WinCE 6.0
Communication Interface	RS485-1, RS485-2, Ethernet 10/100 (RJ45)
Storage	Standard 8GB SD Card (Expandable up to 16GB)
Dimension (H × W × D), Weight	403 × 343 × 106mm, 7 Kg

Designed & Engineered by: Ablerex every moment counts