



Commercial Energy Storage Solution

SL1000-SX

SolarLEAF™ is a fully-integrated energy storage device that seamlessly integrates behind each photovoltaic (PV) panel in a solar array. Engineered with smart thermal regulation technology, SolarLEAF™ safely enables a distributed and scalable format while maximizing the life and performance of the battery under extreme temperature conditions.

The SolarLEAF™ is the most reliable and easiest to deploy energy storage system for solar self-consumption, time-based control and backup power, enabling customers to enhance energy savings and achieve energy independence from the grid.



The safest and simplest way to integrate storage with solar PV

LONGER BATTERY LIFE

Breakthrough thermal regulation technology allows our batteries to operate in extreme temperatures without adversely affecting usable lifespan.

EASY INSTALLATION + NO ADDED SPACE

Through panel-level storage, SolarLEAF™ allows for the lowest installed costs for adding energy storage to any solar PV system.

COMPATIBLE WITH ANY INVERTER

Yotta Gateway can be used with any industry inverter to convert DC power into usable AC power.

PLUG-AND-PLAY

Eliminates the need for heavy enclosures, complicated HVAC systems and expensive fire suppression systems.

FULL CONTROL

Our built-in DC Optimizer with wireless monitoring manages both solar power generation and energy storage.

ADVANCED SAFETY MEASURES

LFP chemistry's inherent safety, a fireproof enclosure, and rapid shutdown make SolarLEAF™ one of the safest way to add energy storage to any project.



Module Specifications

ELECTRICAL

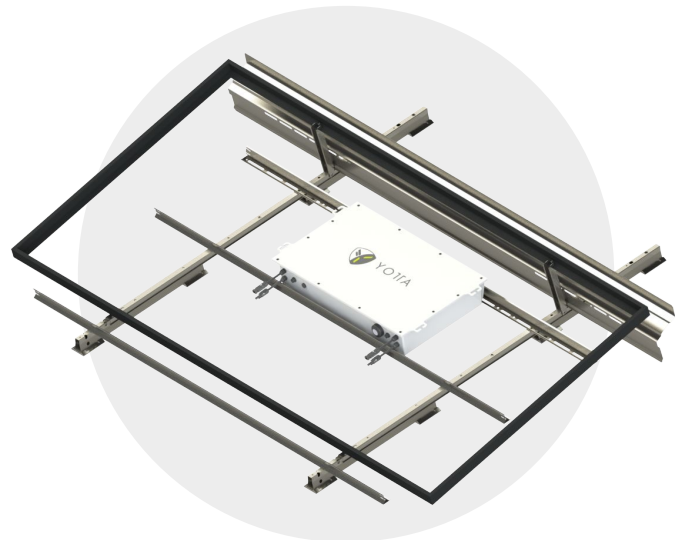
Solar PV Input	Up to 450W
Solar Charging	60–72 Cell PV modules
Inverter Compatibility	String, Micro, or Hybrid Battery Inverter
Nominal Battery Capacity	1.0 kWh @ 100% DoD
Chemistry	Lithium Iron Phosphate
Power Output	500 W DC (steady) 600 W DC (peak)
Output Efficiency	96 %
Architecture	Series Connected (48V Parallel Optional)

MECHANICAL

Weight	52.6lbs / 23.9kg
PSF	2.7 / 3.0 psf typical
Mounting Options	Attaches to PV or ballast racking
Ambient Op. Temp	
Base Range	-10° to 65°C (14° to 150°F)
Extended Range	-40° to 65°C (-40° to 150°F)
Dimensions	15.75 x 26.25 x 4.25 (inch) 400 x 667 x 108 (mm)

SAFETY AND WARRANTY

Warranty	10 yrs extendable to 20 yrs
Enclosure	NEMA 4X, IP 67 (Pending)
Compliance	Designed to UL1973, UL9540 (Pending)
Monitoring	Yotta Gateway via Wifi Network
Safety	NEC 2017 Rapid shutdown UL9540A and NFPA 855 (Pending)



Example: SolarLEAF™ with PanelClaw FR Ballast Racking