

## Commercial Energy Storage Solution

SL-1000

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 peak energy shaving, 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.

### COMPLETELY INTEGRATED

Battery optimized for use with Yotta Dual Power Inverter for full flexibility to adapt to your solar and storage needs and grow with your future demands.

### 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

<b>Solar PV Input</b>	Up to 750W
<b>Module Compatibility</b>	60-72 Cell PV modules Voc(max) 60V - Isc(max) 12.5A
<b>Inverter Compatibility</b>	Yotta DPI Microinverter
<b>DC Voltage - Nominal</b>	38.4V
<b>Amp Hours</b>	26.4Ah
<b>Rated kWh Capacity</b>	1000Wh @ (100% DoD) 800Wh @ (80% DoD)
<b>Allowable Depth of Discharge (DoD) <sup>1</sup></b>	Up to 100%
<b>Voltage Range <sup>1</sup></b>	24.0V to 43.8V
<b>Max Continuous Voltage (charge &amp; discharge)</b>	60V
<b>Max Continuous Current (charge &amp; discharge)</b>	12.5A
<b>Max Power Output <sup>2</sup> (discharge)</b>	Up to 750W
<b>DC Conversion Efficiency <sup>3</sup></b>	95%
<b>Chemistry</b>	Lithium Iron Phosphate
<b>Cycle Life</b>	6,000+ Cycles (@ 80% DoD)

#### Notes:

1 - Maximum operating ranges. Refer to warranty for recommended conditions.

2 - From battery, but further limited by solar inverter.

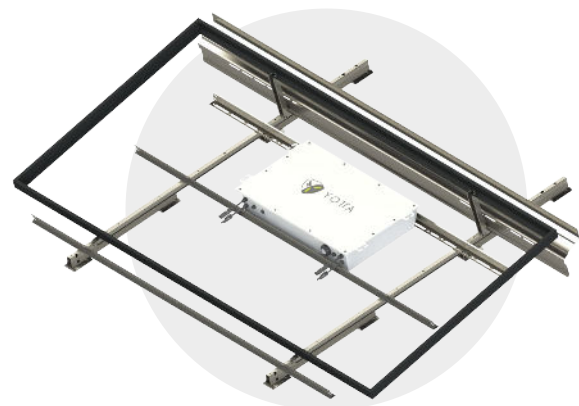
3 - Solar to battery to inverter, at beginning of life.

### MECHANICAL

<b>Weight</b>	52.6lbs / 23.9kg
<b>PSF</b>	2.7 / 3.0 psf typical
<b>Mounting Options</b>	Attaches to PV or ballast racking
<b>Ambient Op. Temp</b>	-20° to 65°C (-4° to 150°F)
<b>Storage Temp</b>	-20° to 55°C (-4° to 114°F)
<b>Dimensions</b>	15.75 x 26.25 x 4.25 (inch) 400 x 667 x 108 (mm)

### SAFETY AND WARRANTY

<b>Warranty</b>	10 yrs.
<b>Enclosure</b>	NEMA 4X, IP 67
<b>Certification</b>	UL1973 (Pending) UL9540 (Pending)
<b>Monitoring</b>	Yotta Energy Services (Y.E.S.) via SolarPLEXUS Gateway
<b>Safety</b>	NEC 2020 Rapid shutdown UL9540A and NFPA 855 (Pending)



Example: SolarLEAF™ with PanelClaw FR  
10 Degree Ballast Racking