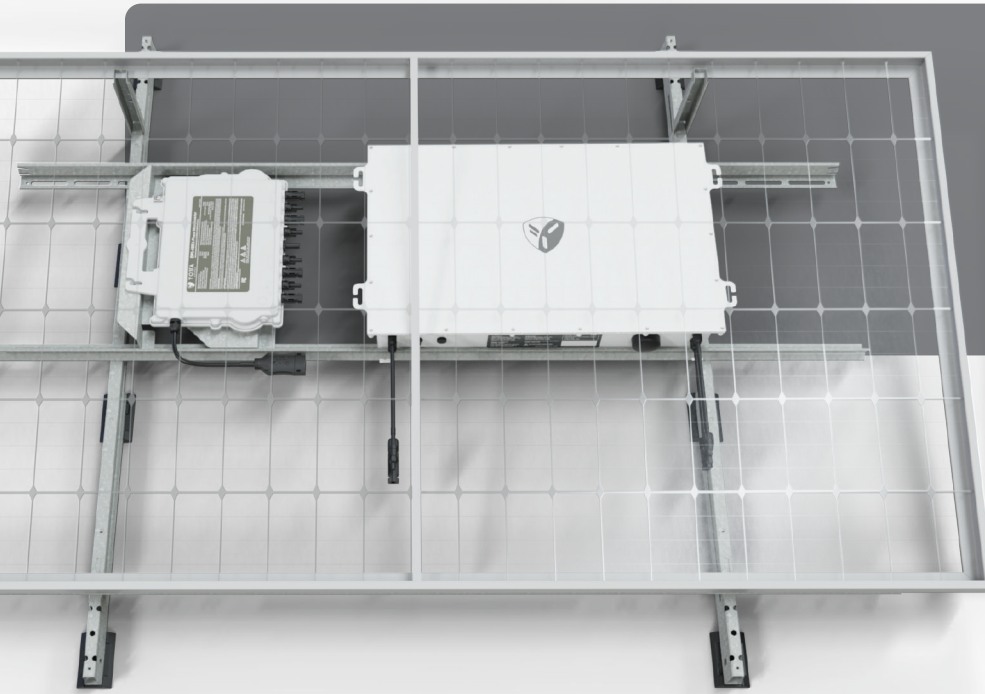


Safely Standardizing Solar+Storage Integration

Solving the complexity of ESS with SolarLEAF



The SolarLEAF™ (SL-1000) is a fully **integrated** energy storage solution that **seamlessly** integrates behind PV modules on **commercial** rooftops. We've **solved** one of the industry's biggest challenges - "Where do you put the batteries?" Our battery is engineered in **conjunction** with our microinverters into the PV design, and sits in the racking behind the module. With patented **thermal regulation technology**, the SolarLEAF needs no additional maintenance post-install, no matter the thermal site **conditions**.



Scalable+Retrofittable

The SolarLEAF's **modular** design is able to scale to meet the **specific** needs of an individual site. Directly **integrating** with Yotta's **Dual Power Inverters**, the Yotta team can help you **size, plan,** and even **retrofit** as your storage needs change.



Best-in-Class Fire Safety

- Passively maintains batteries at their preferred **working temperature** range (70-100°F), meaning a prolonged life.
- Entirely **solid-state** with no moving parts, requiring no electricity to **thermally regulate**, meaning no maintenance needed.
- **LFP (LiFePO4)** battery chemistry is the **safest chemistry** on the market (No thermal runaway and longer battery life).
- **UL 9540A** testing demonstrated no external flaming and fully **contained** the induced thermal runaway (no ignition even occurred within the unit).
- **Centralized systems** densely pack battery modules into one **container**, dramatically **increasing** propagation/fire risk.
- **Distributed** design for increased **safety**, minimizing propagation **risk**.
- **3rd party** verified performance and ongoing field testing.

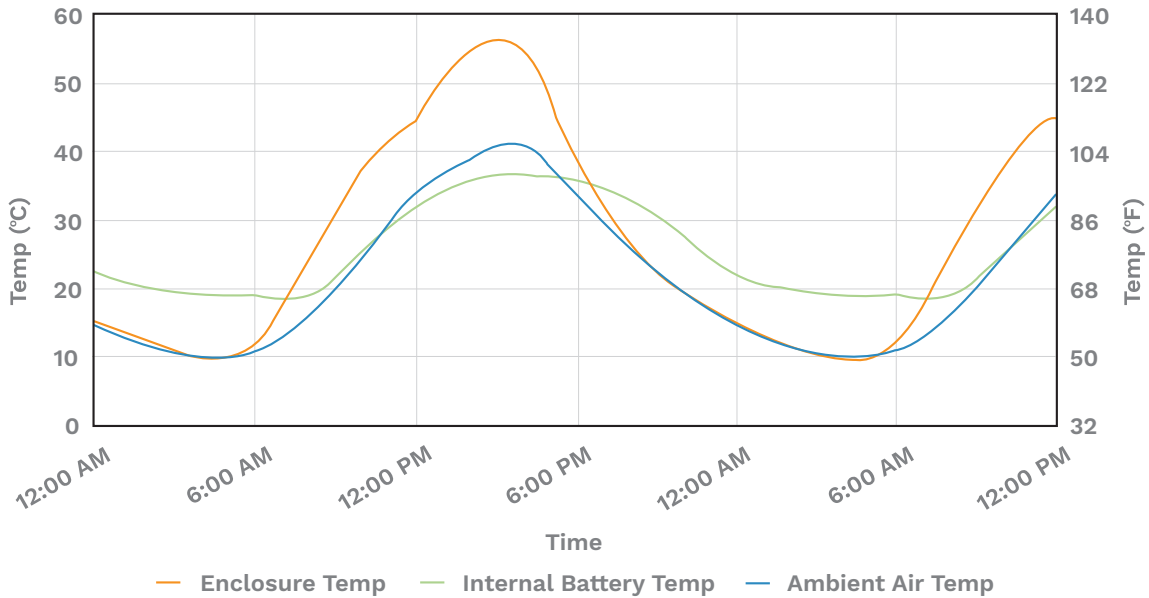
Integrated Technology

- **Low Voltage system design** (<60VDC) eliminates arc fault risk for both the solar and energy storage system.
- Each SolarLEAF is **surrounded** by a layer of ceramic which **insulates** and acts as a fire blanket.
- Microinverter provides NEC 2023 **rapid shutdown** for the solar and the battery.
- **Advanced battery management system** constantly balances cell voltages, **controls** charge/discharge cycles and maintains **safe operating temperature**.



Ver. 2.0
April 2024

SolarLEAF™ Passive Thermal Management



Certifications & Approvals

- UL 9450 (Certified)
- UL 9540A (Compliant)
- UL1973 (Certified)
- CEC & JA12 Listed
- UL 1741 SA and SB Certified

- **High efficiency** DC-coupled architecture delivers more savings.
- **Modular design** scales in 1 kWh increments, meaning that targets based on jurisdiction, code, or building needs are addressed with **accuracy**.
- Solid-state design means **no annual maintenance** required, no expensive **fire suppression systems**, cooling, heating, or cleaning needed.

ENERGY STORAGE INSTALLATION CHECKLIST	CENTRALIZED	SolarLEAF (SL-1000)
System Design	\$\$\$	\$ - Designed to replace ballast
Land area for Deployment + Site Inspection	\$\$\$	NONE - Same footprint as solar
Trenching back to interconnection	\$\$\$	NONE - Into existing system
Foundation+Civil engineering work/labor	\$\$\$	NONE - Retrofittable under existing systems
Landscaping, fences and walls	\$\$\$	NONE - Under each PV module
Building and electrical permitting	\$\$\$	NONE - Most AHJ's permitted within the same process
Storage dedicated inverters (AC coupled)	\$\$	NONE - No dedicated storage inverters (DC coupled system)
Fire Suppression Systems	\$\$\$	\$ - Multiple built-in layers of safety
Installation & Commissioning	\$\$\$	\$ - Installed at the same time as solar with the same team effort

*General comparison between centralized Energy Storage Systems and Yotta's distributed SolarLEAF ESS.