SL-1000

Commercial Energy Storage System



Yotta's SolarLEAFTM (SL-1000) is a fully-integrated energy storage technology that seamlessly integrates behind photovoltaic (PV) modules on commercial rooftops which solves one of the industry's biggest challenges of "Where do you put the batteries?". Engineered with an advanced passive thermal regulation technology, SolarLEAF™ safely enables a distributed format while maximizing the life and performance of the battery under extreme thermal conditions.

The SolarLEAF's modular design is able to scale to meet the changing needs of commercial buildings while optimizing for today's needs. With its plug-and-play design and direct integration with Yotta's Dual Power Inverters, deployment of the technology is a breeze.

- Best in class fire safety
- Plug-and-play for simplified deployment
- Low Voltage DC Architecture (<60V)
- Single phase or 3-phase (208V or 480V) options
- Engineered for high-capacity PV modules
- Light-weight design for ease of handling during installation
- High efficiency **DC-coupled architecture** delivers more
- Modular design that can expand to meet the changing needs of buildings
- Solid-state design means no annual maintenance required

























Ver. 4.0 April 2024

YottaVision Monitoring

- Monitors and Analyzes each solar module and battery
- Allows Remote Access to the solar array
- Displays **Performance Issues** and alerts the user to events
- Real Time Communication
- Performance Reporting to support troubleshooting

ENERGY MADE SIMPLE

Solar PV Input	MODEL	SL-1000
Module Compatibility Voc(max) 60V - Isc(max) 15A Inverter Compatibility Yotta DPI Microinverter DC Voltage - Nominal 38.4V Amp Hours 26.4Ah Rated Capacity 1000Wh @ (100% DoD) Allowable Depth of Discharge (DoD) (1) Up to 100% Injust Voltage (1) 53V Output Voltage Range 22-45V MPPT Operating Range 20-50V Max Continuous Current (charge & discharge) 15A Max Power Output (2) (discharge) Up to 675W Chemistry Lithium Iron Phosphate Cycle Life 6,000+ Cycles (@ 80% DoD) MECHANICAL Weight Weight 56.7 lbs (25.7kg) Roof Loading 2.7 / 3.0 psf typical Mounting Options Attaches to PV or ballast racking Ambient Op. Temp. -20° to 55°C (-4° to 114°F) Storage Temp. -20° to 55°C (-4° to 114°F) Diomensions 15.75 x 26.25 x 4.25 (in) SAFETY AND WARRANTY 10 Years Enclosure NEMA 4X, IP67 Certifications UL 1973 UL 9540	ELECTRICAL	
Inverter Compatibility DC Voltage - Nominal 38.4V Amp Hours 26.4Ah Rated Capacity 1000Wh @ (100% DoD) 800Wh @ (80% DoD) 800Wh @ (80% DoD) Allowable Depth of Discharge (DoD) (1) Up to 100% Input Voltage (1) 53V Output Voltage Range 22-45V MPPT Operating Range Max Continuous Current (charge & discharge) Than Amax Power Output (2) (discharge) Cycle Life 6,000+ Cycles (@ 80% DoD) MECHANICAL Weight Sof, I bs (25.7kg) Roof Loading Attaches to PV or ballast racking Ambient Op. Temp. 2-0° to 43°C max continuous (-4° to 109°F) Storage Temp. Dimensions Storage Temp. Dimensions 15,75 x 26.25 x 4.25 (in) SAFETY AND WARRANTY Warranty Enclosure NEMA 4X, IP67 Certifications MONITORING MONITORING	Solar PV Input	Up to 750W
DC Voltage - Nominal 38.4V	Module Compatibility	Voc(max) 60V - Isc(max) 15A
Amp Hours Rated Capacity 1000Wh @ (100% DoD) 800Wh @ (80% DoD) Allowable Depth of Discharge (DoD) (1) Input Voltage (1) Output Voltage Range 22-45V MPPT Operating Range 20-50V Max Continuous Current (charge & discharge) Max Power Output (2) (discharge) Cycle Life Cycle Life 6,000+ Cycles (@ 80% DoD) MECHANICAL Weight 56.7 lbs (25.7kg) Roof Loading Antiaches to PV or ballast racking Ambient Op. Temp. 42-4° to 109°F) Storage Temp. 52-20° to 43°C max continuous 15.75 x 26.25 x 4.25 (in) SAFETY AND WARRANTY Warranty Enclosure Certifications MONITORING MONITORING 1000Wh @ (100% DoD) BOWN DODN SOW DODN 1000Wh @ (100% DoD) 1000Wh @ (100% DoD) 1000Wh @ (100% DoD) 1000Wh @ (80% DoD) 105A 105A 105A 105A 105Wh 1000Wh 1	Inverter Compatibility	Yotta DPI Microinverter
Rated Capacity 1000Wh @ (100% DoD) 800Wh @ (80% DoD) Allowable Depth of Discharge (DoD) (1) Up to 100% Input Voltage (1) 53V Output Voltage Range 22-45V MPPT Operating Range 20-50V Max Continuous Current (charge & discharge) 15A Max Power Output (2) (discharge) Up to 675W Chemistry Lithium Iron Phosphate Cycle Life 6,000+ Cycles (@ 80% DoD) MECHANICAL Weight 56.7 lbs (25.7kg) Roof Loading 2.7 / 3.0 psf typical Mounting Options Attaches to PV or ballast racking Ambient Op. Temp20° to 43°C max continuous (-4° to 109°F) Storage Temp20° to 55°C (-4° to 114°F) Dimensions 15.75 x 26.25 x 4.25 (in) SAFETY AND WARRANTY Warranty 10 Years Enclosure NEMA 4X, IP67 Certifications UL 1973 UL 1973 UL 1973 UL 19540 UN38.3 MONITORING	DC Voltage - Nominal	38.4V
Allowable Depth of Discharge (DoD) (1) Allowable Depth of Discharge (DoD) (1) Up to 100% Input Voltage (1) 53V Output Voltage Range 22-45V MPPT Operating Range Ans Continuous Current (charge & discharge) Max Continuous Current (charge & discharge) Max Power Output (2) (discharge) Chemistry Lithium Iron Phosphate Cycle Life 6,000+ Cycles (@ 80% DoD) MECHANICAL Weight 56.7 lbs (25.7kg) Roof Loading 2.7 / 3.0 psf typical Mounting Options Attaches to PV or ballast racking Ambient Op. Temp. -20° to 43°C max continuous (-4° to 109°F) Storage Temp. -20° to 55°C (-4° to 114°F) Dimensions 15.75 x 26.25 x 4.25 (in) SAFETY AND WARRANTY Warranty In Years Enclosure NEMA 4X, IP67 Certifications UL 1973 UL 9540 UN38.3 MONITORING	Amp Hours	26.4Ah
Allowable Depth of Discharge (DoD) (1) Input Voltage (1) S3V Output Voltage Range 22-45V MPPT Operating Range 20-50V Max Continuous Current (charge & discharge) Max Power Output (2) (discharge) Up to 675W Chemistry Lithium Iron Phosphate Cycle Life 6,000+ Cycles (@ 80% DoD) MECHANICAL Weight 56.7 lbs (25.7kg) Roof Loading 2.7 / 3.0 psf typical Mounting Options Attaches to PV or ballast racking Ambient Op. Temp20° to 43°C max continuous (-4° to 109°F) Storage Temp. Dimensions 15.75 x 26.25 x 4.25 (in) SAFETY AND WARRANTY Warranty Enclosure Certifications Up to 100% 153V Up to 100% 153V Up to 675W Up to 675W 15.75 x 26.25 x 4.25 (in) 15.76 x 26.25 x 4.25 (in) 15.75 x 26.25 x 4.25 (i	Rated Capacity	1000Wh @ (100% DoD)
Input Voltage (1) Output Voltage Range 22-45V MPPT Operating Range 20-50V Max Continuous Current (charge & discharge) Max Power Output (2) (discharge) Chemistry Chemistry Chemistry Lithium Iron Phosphate Cycle Life 6,000+ Cycles (@ 80% DoD) MECHANICAL Weight 56.7 lbs (25.7kg) Roof Loading 2.7 / 3.0 psf typical Mounting Options Attaches to PV or ballast racking Ambient Op. Temp. -20° to 43°C max continuous (-4° to 109°F) Storage Temp. 2-20° to 55°C (-4° to 114°F) Dimensions 15.75 x 26.25 x 4.25 (in) SAFETY AND WARRANTY Warranty 10 Years Enclosure NEMA 4X, IP67 Certifications UL 1973 UL 9540 UN38.3 MONITORING		800Wh @ (80% DoD)
Output Voltage Range 22-45V MPPT Operating Range 20-50V Max Continuous Current (charge & discharge) 15A Max Power Output (2) (discharge) Up to 675W Chemistry Lithium Iron Phosphate Cycle Life 6,000+ Cycles (@ 80% DoD) MECHANICAL Weight 56.7 lbs (25.7kg) Roof Loading 2.7 / 3.0 psf typical Mounting Options Attaches to PV or ballast racking Ambient Op. Temp20° to 43°C max continuous (-4° to 109°F) Storage Temp20° to 55°C (-4° to 114°F) Dimensions 15.75 x 26.25 x 4.25 (in) SAFETY AND WARRANTY Warranty 10 Years Enclosure NEMA 4X, IP67 Certifications UL 1973 UL 9540 UN38.3 MONITORING	Allowable Depth of Discharge (DoD) (1)	Up to 100%
MPPT Operating Range 20-50V Max Continuous Current (charge & discharge) 15A Max Power Output (2) (discharge) Up to 675W Chemistry Lithium Iron Phosphate Cycle Life 6,000+ Cycles (@ 80% DoD) MECHANICAL Weight 56.7 lbs (25.7kg) Roof Loading 2.7 / 3.0 psf typical Mounting Options Attaches to PV or ballast racking Ambient Op. Temp20° to 43°C max continuous (-4° to 109°F) Storage Temp20° to 55°C (-4° to 114°F) Dimensions 15.75 x 26.25 x 4.25 (in) SAFETY AND WARRANTY Warranty 10 Years Enclosure NEMA 4X, IP67 Certifications UL 1973 UL 9540 UN38.3 MONITORING	Input Voltage (1)	53V
Max Continuous Current (charge & discharge) Max Power Output (2) (discharge) Chemistry Chemistry Cycle Life Cycle Simple Cycle Life Cycle Simple Cycle Simple Lithium Iron Phosphate Cycle Simple Cycle Cycle Life Lithium Iron Phosphate Lithium Iron Phosphate Cycle Simple Cycle Simpl	Output Voltage Range	22-45V
Max Power Output (2) (discharge) Chemistry Chemistry Cycle Life 6,000+ Cycles (@ 80% DoD) MECHANICAL Weight S6.7 lbs (25.7kg) Roof Loading Attaches to PV or ballast racking Ambient Op. Temp. -20° to 43°C max continuous (-4° to 109°F) Storage Temp. -20° to 55°C (-4° to 114°F) Dimensions SAFETY AND WARRANTY Warranty Enclosure NEMA 4X, IP67 Certifications MONITORING Lithium Iron Phosphate 6,000+ Cycles (@ 80% DoD) 80% DoD)	MPPT Operating Range	20-50V
Chemistry Cycle Life Cycle Life 6,000+ Cycles (@ 80% DoD) MECHANICAL Weight S6.7 lbs (25.7kg) Roof Loading 2.7 / 3.0 psf typical Mounting Options Attaches to PV or ballast racking Ambient Op. Temp20° to 43°C max continuous (-4° to 109°F) Storage Temp20° to 55°C (-4° to 114°F) Dimensions 15.75 x 26.25 x 4.25 (in) SAFETY AND WARRANTY Warranty I 0 Years Enclosure Certifications UL 1973 UL 9540 UN38.3 MONITORING Yotta Vision	Max Continuous Current (charge & discharge)	15A
Cycle Life 6,000+ Cycles (@ 80% DoD) MECHANICAL Weight 56.7 lbs (25.7kg) Roof Loading 2.7 / 3.0 psf typical Mounting Options Attaches to PV or ballast racking Ambient Op. Temp20° to 43°C max continuous (-4° to 109°F) Storage Temp20° to 55°C (-4° to 114°F) Dimensions 15.75 x 26.25 x 4.25 (in) SAFETY AND WARRANTY Warranty 10 Years Enclosure NEMA 4X, IP67 Certifications UL 1973 UL 9540 UN38.3 MONITORING Yotta Vision	Max Power Output (2) (discharge)	Up to 675W
MECHANICAL Weight 56.7 lbs (25.7kg) Roof Loading 2.7 / 3.0 psf typical Mounting Options Attaches to PV or ballast racking Ambient Op. Temp20° to 43°C max continuous (-4° to 109°F) Storage Temp20° to 55°C (-4° to 114°F) Dimensions 15.75 x 26.25 x 4.25 (in) SAFETY AND WARRANTY Warranty 10 Years Enclosure NEMA 4X, IP67 Certifications UL 1973 UL 9540 UN38.3 MONITORING Yotta Vision	Chemistry	Lithium Iron Phosphate
Weight 56.7 lbs (25.7kg) Roof Loading 2.7 / 3.0 psf typical Mounting Options Attaches to PV or ballast racking Ambient Op. Temp20° to 43°C max continuous	Cycle Life	6,000+ Cycles (@ 80% DoD)
Roof Loading Mounting Options Attaches to PV or ballast racking Ambient Op. Temp. -20° to 43°C max continuous (-4° to 109°F) Storage Temp. -20° to 55°C (-4° to 114°F) Dimensions 15.75 x 26.25 x 4.25 (in) SAFETY AND WARRANTY Warranty Enclosure NEMA 4X, IP67 Certifications UL 1973 UL 9540 UN38.3 MONITORING Yotta Vision	MECHANICAL	
Mounting Options Ambient Op. Temp. -20° to 43°C max continuous (-4° to 109°F) Storage Temp. -20° to 55°C (-4° to 114°F) Dimensions 15.75 x 26.25 x 4.25 (in) SAFETY AND WARRANTY Warranty 10 Years Enclosure NEMA 4X, IP67 Certifications UL 1973 UL 9540 UN38.3 MONITORING Yotta Vision	Weight	56.7 lbs (25.7kg)
Ambient Op. Temp. -20° to 43°C max continuous (-4° to 109°F) Storage Temp. -20° to 55°C (-4° to 114°F) Dimensions 15.75 x 26.25 x 4.25 (in) SAFETY AND WARRANTY Warranty 10 Years Enclosure NEMA 4X, IP67 Certifications UL 1973 UL 9540 UN38.3 MONITORING Yotta Vision	Roof Loading	2.7 / 3.0 psf typical
(-4° to 109°F) Storage Temp20° to 55°C (-4° to 114°F) Dimensions 15.75 x 26.25 x 4.25 (in) SAFETY AND WARRANTY Warranty 10 Years Enclosure NEMA 4X, IP67 Certifications UL 1973 UL 9540 UN38.3 MONITORING Yotta Vision	Mounting Options	Attaches to PV or ballast racking
Storage Temp20° to 55°C (-4° to 114°F) Dimensions 15.75 x 26.25 x 4.25 (in) SAFETY AND WARRANTY Warranty 10 Years Enclosure NEMA 4X, IP67 Certifications UL 1973 UL 9540 UN38.3 MONITORING Yotta Vision	Ambient Op. Temp.	-20° to 43°C max continuous
Dimensions 15.75 x 26.25 x 4.25 (in) SAFETY AND WARRANTY Warranty 10 Years Enclosure NEMA 4X, IP67 Certifications UL 1973 UL 9540 UN38.3 MONITORING Yotta Vision		(-4° to 109°F)
SAFETY AND WARRANTY Warranty 10 Years Enclosure NEMA 4X, IP67 Certifications UL 1973 UL 9540 UN38.3 MONITORING Yotta Vision	Storage Temp.	-20° to 55°C (-4° to 114°F)
Warranty 10 Years Enclosure NEMA 4X, IP67 Certifications UL 1973	Dimensions	15.75 x 26.25 x 4.25 (in)
Enclosure NEMA 4X, IP67 Certifications UL 1973 UL 9540 UN38.3 MONITORING Yotta Vision	SAFETY AND WARRANTY	
Certifications UL 1973 UL 9540 UN38.3 MONITORING Yotta Vision	Warranty	10 Years
UL 9540 UN38.3 MONITORING Yotta Vision	Enclosure	NEMA 4X, IP67
UN38.3 MONITORING Yotta Vision	Certifications	UL 1973
MONITORING Yotta Vision		UL 9540
		UN38.3
COMPLIANCE UL 9540, UL 1973	MONITORING	Yotta Vision
	COMPLIANCE	UL 9540, UL 1973

Meets the performance criteria for UL 9540A

- (1) Maximum operating ranges. Refer to warranty for recommended conditions.
- (2) From battery, but further limited by solar inverter.



