



YOTTA
ENERGY

YOTTA BLOCK

Commercial Energy Storage Solution



Seamlessly integrate storage behind photovoltaic (PV) modules on **commercial rooftops** with the 1kWh YOTTA BLOCK (YB-1). We've **simplified battery placement** - one of the biggest challenges of the **commercial ESS landscape**. Our proprietary **passive thermal regulation technology** has enabled the YOTTA BLOCK to be DC coupled, and co-located on **rooftops** and carports adjacent to the PV modules. Our thermal regulation **maximizes the life and performance** of the battery and delivers **best-in-class safety**.

The **YOTTA BLOCK** modular design is able to scale to fit **any project size** to the precise kWh needed, eliminating the siting, construction, and O&M headaches of C&I storage! Our **plug-and-play design** pairs the ESS with Yotta's native three phase DPI microinverters (208V/480V), creating a one-stop solution for **commercial savings**.



- Scalable in 1kWh increments
- Applicable to rooftop ballasted, fixed tilt, flush mount and ground mount racking systems
- Plug-and-play for simplified deployment
- Low-Voltage DC architecture (<60V)
- Slim, light-weight design
- Best in class fire safety
- Compatible with high-capacity PV modules
- High efficiency DC-coupled architecture
- Compatible with 5 & 10 degree ballast racking systems
- Solid-State Design means no annual maintenance required.
- Paired with the Yotta DPI, the YOTTA BLOCK can output either 208V or 480V 3-phase power
- Integrates with YOTTA VISION EMA Platform which allows remote monitoring, asset management, and trouble shooting.⁽²⁾



MODEL

YOTTA BLOCK (YB-1)

INPUT

Module Compatibility	650W (MAX on bypass mode)
MPPT Operating Voltage	20V to 55V
Maximum Input Current (Isc MAX)	15.5A
Open-Circuit Voltage (Voc)	45V

OUTPUT

Max. Continuous Voltage (charge & discharge)	55V
Max. Continuous Current (charge & discharge)	16.5A
Max. Power Output (discharge defined by DPI Microinverter)	432W @ 208V / 450W @ 480V
Inverter Compatibility	Yotta DPI-208 and DPI-480

BATTERY PACK

Chemistry	Lithium Iron Phosphate (LiFePO ₄)
Cycle Life	< 6,000+ Cycles (@ 80% SoH) @ 25°C

Voltage Range (Nominal/MAX)	48V / 54.65V
Amp Hours (Cell x 15S1P)	20 Ah
Module Rated Capacity	1.0 kWh @ (100% DoD)
Cell Configuration	15S1P
Voltage Range	43.5V to 54.65V

MECHANICAL

Weight	28.4 lbs (12.8 kg)
Roof Loading ⁽¹⁾	Approx. 1psf
Racking Capability	PanelClaw, UNIRAC, Aerocompact, IronRidge, Sollega, K2 Systems, KB Racking, Carports, pitched roofs and more
Ambient Operating Temperatures	Charging: -20°C to 45°C (-4°F to 113°F) @ 650W MAX Discharging: -20°C to 45°C (-4°F to 113°F) @ 650W MAX
Storage Temp.	32°F to 77°F (ideally around 59–77°F) < 1 year
Dimensions	15.95 x 7.90 x 4.16" (405.2 x 200.7 x 105.6 mm)

SAFETY AND WARRANTY

Warranty	10 yrs.
Enclosure	NEMA 6, IP67
Certification	UL1973 (Pending) UL9540 (Pending) UL1741 (Pending)
Safety	Meets the performance criteria of UL9540A

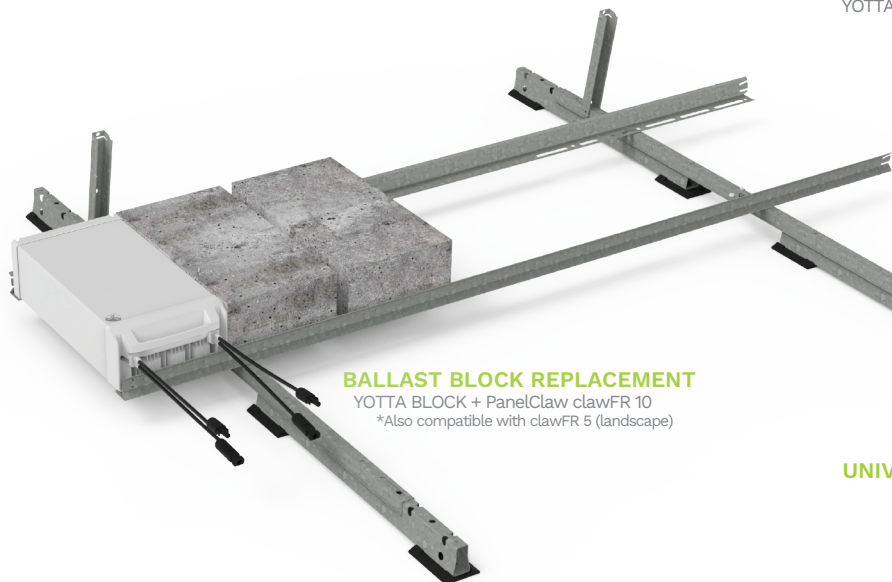
MONITORING

YOTTA VISION

(1) Assuming the use of a ~550W PV module that is ~28sqft and PanelCLAW FR racking.
(2) Additional features like load control and grid services currently in development or available through strategic partners.

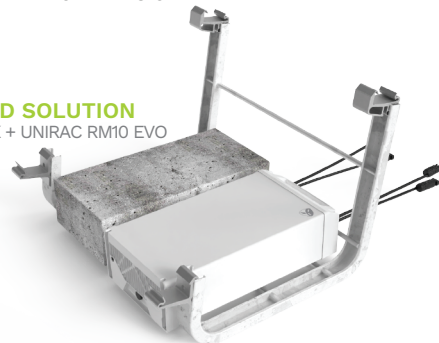
INTEGRATED SOLUTION

YOTTA BLOCK + UNIRAC RM10 EVO



BALLAST BLOCK REPLACEMENT

YOTTA BLOCK + PanelClaw clawFR 10
*Also compatible with clawFR 5 (landscape)



UNIVERSALLY COMPATIBLE

YOTTA BLOCK + SOLLEGA

ENERGY MADE SIMPLE