



POWER, NOT JUST ENERGY

Fully modular and scalable: add modules to increase both power and storage as needed.

	Power ¹	Energy ²	Time (12 C) ³
MEGACELL-2	2 MW	167 kWh	5mins
MEGACELL-10	10 MW	835 kWh	5mins
MEGACELL-50	50.1 MW	4,174 kWh	5mins

¹ Maximum Continuous Power

² Total Energy Storage

³ Full Charge / Discharge Duration at Max. Power: < 5 minutes.

- Provides full nominal power continuously, or longer supply durations at reduced output if required.
- The system supports sustained peak power up to 24C rate.
- Nominal energy values are specified at 25°C (77°F).

ELECTRICAL SPECS

Nominal DC Voltage	480 V
Nominal AC Voltage:	480 V, 3-phase
Nominal Frequency	50 / 60 Hz

Inverter Power per Megacell	MEGACELL-2: 2,500 kVA
	MEGACELL-10: 12,500 kVA
	MEGACELL-50: 62,500 kVA

Scalable from 400 kVA minimum in increments of 50 kVA.

Round-Trip Efficiency	5-Minute	93.0%
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- Full-depth efficiency (0–100% charge/discharge), including conversion and thermal losses, at 5 min cycle and 25°C (77°F).

WARRANTY

Coverage	All-inclusive, equipment and energy retention
Term	15 years standard, extendable to 20 years

Specifications are subject to change without notice. Final product specifications will be confirmed at delivery. Wattium reserves the right to make improvements and modifications to the product as development continues. All trademarks mentioned are the property of their respective owners.

Redefining power and grid stability

- Unmatched sustained nominal power output — engineered for the world's most demanding grid applications.
- Ideal for frequency regulation, backup power, and continuous grid balancing. Enables grid-forming, blackout prevention, and real-time network stabilization.
- Over 30,000 cycles with minimal degradation—industry-leading lifetime and efficiency.
- Non-flammable, lithium-free, and fully recyclable for maximum safety and sustainability.
- Plug-and-play integration with any grid or renewables platform—IoT and future-ready.
- Factory-assembled, modular units for rapid deployment and flexible scaling.
- Rigorously tested by leading experts to ensure reliability in any environment.
- Lowest operational cost and maintenance in its class, maximizing long-term value.

PHYSICAL SETUP

Ingress Ratings	IP66 / NEMA 3R (Main Enclosure) IP20 (Thermal System)
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Enclosure Dimensions (Megacell-2)	Width: 5600 mm (220 ½ in) Depth: 1650 mm (65 in) Height: 2200 mm (86 ½ in)
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Maximum Weight	19,100 kg (42,194 lbs.)
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Operating Ambient Temperature –30°C to 50°C (–22°F to 122°F)

REGULATORY

System is compliant to grid codes and safety standards of all major markets.

System	UL 1973, UL 9540, IEC 62933, IEC 62619
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Cells	IEC 62619, UL 1973
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MONITOR, CONTROL & COMMUNICATIONS

OpenEMS	Free cloud monitoring system
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Protocols	Modbus, MQTT, WEBSOCKETS, REST API
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Core Control Modes	Direct Real Power Control Ramp Rate Control Frequency Support Voltage Control Remote & Automated Control Power Factor Control Virtual Inertia Island/Grid-Forming Mode Black Start Capability
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