SELF-INSTALLABLE ENERGY STORAGE APPLIANCE

Standard Model
Available in 2.1 & 2.4kVAh
Household units

Tall Model
Available in 2.1 & 2.4kVAh
Small apartment/small house

Customer Application
Simple monitoring

*Product images not to scale. Product supports third-party energy monitors.

Simple

· Each Mint Energy Power Wall comprises an all-in-one Panel containing a battery module, a battery management system (BMS), a multi-port bidirectional inverter (AC-DC and DC-AC), and computing/communication modules
· Scalable solution

Easy

· Quick self-install
· Simple plug and play configuration
· No electrical skills required for installation
· No individual utility approvals or electrical permits required

Flexible

· Energy storage for all
· Works in nearly all homes or apartments (including urban, multi-family)
· The Mint Energy Power Wall runs silent up to over half power; and nearly silent up to full power

Smart

· Automatically stores energy when electricity is cheap and discharges energy to any circuit in the house when the price rises, thereby lowering energy bills
· Complementary with dynamic pricing
· Learns and adapts to individual consumer habits
· App and web controlled

Safe

· Advanced management system can detect adverse events, such as overcurrent and groundfault, and safely disconnect itself
· Materials, construction, and operation compliant with electrical safety standards(e.g.,UL, IEC) as required bygeographic location
· No high-voltage DC in system

Sleek

· Low profile with LED lighting and customizable front skins

Environment and Community

· Mint Energy products enable a global clean energy infrastructure
· Reduces peak loads to reduce strain on the grid
· Provides backup power in emergencies
· Mint Energy Power Wall lights up during blackouts

Additional Capability

· Optional floor stand

Dimensions

Standard	W 452 mm / H 680 mm / D 93mm
Tall	W 230 mm / H 1287mm / D 93mm

Weight Goal

Panel	<85 lbs. (<38.5 kg)

Installation

Power Wall	Wall mount or (optional) floor mount Connected to standard wall receptacle
Plug Options	International (smart-cord plug configuration designed for region specific standards)
Auxiliary Power Strip	(Optional) 1 to 4+ plugs
Circuit Protection	Overcurrent, overvoltage, GFCI (RCD)
Enclosure	Indoor, wall mount or floor mount
Cooling	Hybrid active/passive cooling design for minimal noise. Silent up to over half power; nearly silent up to full power
Cord Length	>2 meters cord length from unit to wall receptacle

Operating Temperature	-10°C to 40°C
Storage Temperature	-20°C to 50°C
Humidity (non-condensing)	0 to 95%

FEATURES AND COMPLIANCE

Compatibility	Compatible with grid-tied PV systems (through home AC circuits) Optional future direct DC with MPPT in via auxiliary connection
Communication	Wi-Fi, Bluetooth Low Energy (BLE), LoRa, Optional Cat 1M LTE
LED Fuel Gauge and Lighting	RGB
Compliance	Designed for compliance with North American and international standards, including IEC 62040.1, UL 1973, and UN 38.3

WARRANTY

Warranty	5 to 10 years (to be defined based on pilot program usage testing and system performance)

OUTPUT DATA (AC)

Efficiency	>90% Roundtrip AC
Nominal Power Rating	3 kVA
Duration of Discharge	>1 hour
Nominal Voltage / Range	100 to 240 VAC (model dependent)
Nominal Frequency / Range	50 to 60 H_z (matches utility frequency)
Power Factor (Adjustable Limits)	TBD

CAPACITY EXTENSION

Connection	Direct connect cable to Panel
Mounting	Identical to Panel base unit
Max# of Expansion Units	Up to 5 battery expansion units per base unit (6 units total), unlimited base units per installation

BATTERY

Chemistry	Graphene
Maximum Capacity	2.1 kWh or 2.4 kWh (Beginning of Life) 1.7 kWh or 1.95 kWh (End of Warranty)
C-Rate (Discharge/Charge)	Maximum 1 C / 0.5 C
Nominal Battery Voltage	52 V for 2.1 kWh 59 V for 2.4 kWh