



POLARIZ GEN-E SERIES

Your own GEN-Erator.

Inverter, lithium battery and solar charger in one refined unit. Power that stays on when the grid doesn't.



1-8 kWh

Four capacities

6000

LiFePO₄ cycle life

Pure sine

Clean 230 V output

99%

MPPT solar efficiency

One unit. **Four capacities.**

Every Gen-E pairs a pure sine wave inverter, a lithium iron phosphate battery and an MPPT solar charger in a single enclosure.



Gen-E 1000

1 kWh

500 W Output | 400 W Solar | 10.5 kg

Lights, fans, Wi-Fi and phone charging for a room or shop counter.



Gen-E 2000

2 kWh

1200 W Output | 1000 W Solar | 19.8 kg

A small home: lights, fans, TV and laptop. Replaces a typical inverter and battery.



Gen-E 4000

4 kWh

2000 W Output | 3000 W Solar | 10 ms

A full home: refrigerator, fans, lights, TV, computer and water purifier.



Gen-E 8000

8 kWh

3600 W Output | 5000 W Solar | 10 ms

Larger homes, clinics, offices and shops. On wheels for easy placement.

Seamless switch-over

10 ms on Gen-E 4000 / 8000,
≤20 ms on Gen-E 1000 / 2000.

Quiet by design

Under 50 dB, comfortable in a living room or bedroom.

Your colour

White, black, orange or green.
Gen-E 8000: white or black.

Technical specifications


Gen-E 1000

Gen-E 2000

Gen-E 4000

Gen-E 8000

	Gen-E 1000	Gen-E 2000	Gen-E 4000	Gen-E 8000
Battery energy	1004.8 Wh	2009.6 Wh	4019.2 Wh	8038.4 Wh
Battery voltage	3.2 V LFP	6.4 V LFP	12.8 V LFP	25.6 V LFP
Cycle life	6000	6000	6000	6000
AC output	500 W	1200 W	2000 W	3600 W
Waveform	Pure sine, 230 V	Pure sine, 230 V	Pure sine, 230 V	Pure sine, 230 V
UPS switch time	≤ 20 ms	≤ 20 ms	10 ms	10 ms
Solar input (max)	400 W	1000 W, 2 inputs	3000 W	5000 W
MPPT range	12–55 V	12–55 V	30–400 V	40–450 V
MPPT efficiency	99%	99%	99%	99%
AC input (max)	800 W	1800 W	2300 W	4600 W
AC input range	90–280 V	90–280 V	90–280 V	90–280 V
Noise	< 45 dB	< 50 dB	< 50 dB	≤ 50 dB
Operating temp.	0–50 °C	0–50 °C	0–45 °C	0–45 °C
Dimensions (mm)	225 × 143 × 280	420 × 148 × 290	400 × 186 × 600	400 × 246 × 771
Weight	10.5 kg	19.8 kg	39 kg	70 kg, on wheels
Monitoring	—	—	Wi-Fi (optional)	Wi-Fi (optional)
Warranty	[WARRANTY]	[WARRANTY]	[WARRANTY]	[WARRANTY]
MRP	[PRICE]	[PRICE]	[PRICE]	[PRICE]

Protections on all models: overload, short circuit, over-temperature, battery over/under-voltage, PV reverse polarity. AC input max includes charging plus load. Indoor installation (IP31). Specifications may change without notice; please confirm with your Gen-E dealer before purchase.



FOR BUSINESS · GEN-E BESS

Industrial power, **stored.**

Containerised battery energy storage for factories, resorts, hospitals and commercial buildings, from 125 kW to 2.5 MW. Sized to your load and installed by Polariz.

01

Cut peak demand charges

Discharge during your peak hours to lower the maximum demand billed by the DISCOM.

02

Store your solar

Bank surplus daytime solar and use it in the evening instead of exporting it cheaply.

03

Run less diesel

Carry loads through outages and cut DG run hours and fuel bills.

04

Protect critical loads

Keep process lines, cold rooms and servers running through grid dips.

125 kW – 2.5 MW

Six standard power ratings

241 kWh – 5 MWh

Energy per system

≈ 2 hours

At full rated power

Six systems. One platform.

Containerised solutions from a single 125 kW unit up to a 2.5 MW / 5 MWh plant.

GEN-E BESS

125 kW / 241 kWh



≈ 1.9 h at rated power

Shops & offices

GEN-E BESS

LIQUID-COOLED

125 kW / 261 kWh



≈ 2.1 h at rated power

Hot sites, tight spaces

GEN-E BESS

250 kW / 482 kWh



≈ 1.9 h at rated power

Resorts, hospitals

GEN-E BESS

500 kW / 1 MWh



≈ 2 h at rated power

Mid-size factories

GEN-E BESS

1 MW / 2 MWh



≈ 2 h at rated power

Large plants, campuses

GEN-E BESS

2.5 MW / 5 MWh



≈ 2 h at rated power

Industrial & solar parks



Get a free sizing study

- 01 Share 12 months of electricity bills and your DG run logs.
- 02 Polariz models your load, tariff and solar to size the system.
- 03 You get a proposal with capex, savings and payback.

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Duration is energy divided by rated power. Detailed datasheets for each system are available on request. Specifications may change without notice.

Still on an old inverter and a **lead-acid battery**?

Inverter + lead-acid battery	Polariz Gen-E
Two boxes, cables between them	One unit, plug in and go
Distilled-water top-ups, acid fumes	Sealed LiFePO ₄ , maintenance-free
Solar needs a separate charge controller	Solar charger built in
Heavy for the energy it stores	4 kWh in 39 kg (Gen-E 4000)

HOW TO GET YOURS

01

Tell your dealer what you want to keep running.

02

Choose the right Gen-E, with or without solar panels.

03

A local Gen-E partner installs and sets it up.



Gen-E Energy Solutions Private Limited

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Website: geneenergy.in

Your dealer: _____