i-G3N

INNOVATION GENERATION

e-Wall

Spec Sheet

Premium, South African-made Lithium Iron Phosphate batteries

victron energy BLUE POWER

SUN SYNK®

LEVEL 2 BBBEE CONTRIBUTOR

Design marries simplicity and function

The wall-mounted design supports multiple layout options without compromising floor space, and at the same time offers a raised height location to protect the battery from possible flood damage. The battery has a control box separate from the storage unit, and allows for additional storage capacity to be added.

Using trusted $LiFePO_4$ (LFP) cell technology the e-Wall offers a full 5 kW (100A) sustained output per unit. The control box comes in 500A or 1000A units, giving a wider range of design options . Up to 10 storage expansion units can be paralleled together.

e-Wall ships with a wall bracket that is the same footprint as the battery so that you can easily plan and provision before installing the actual unit.

This allows for quick preparation and installation as well as minimal effort should adjustments be needed.

Each e-Wall offers an access panel to the right with either top or bottom exit options. This panel securely closes and leaves no access to the main DC and communication ports.

Top Features

-Scalable in 5.4 kWh increments

-Control boxes come in two sizes

-Full suite CAN Bus integration with Victron and SunSynk inverters

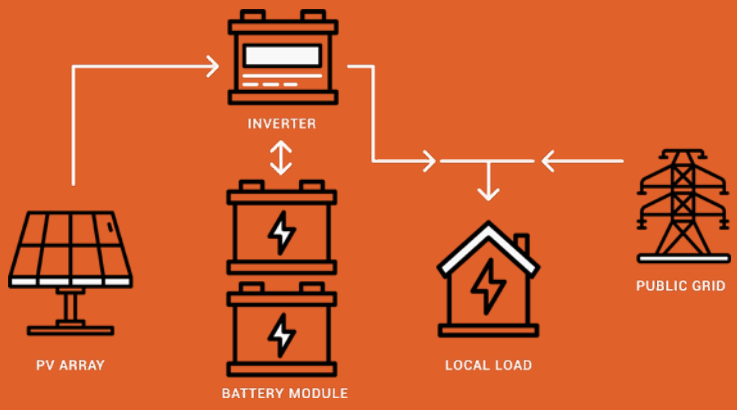
-5kW (100A sustained) output

-Wall mounted with easy to install bracket

-Built in battery protection

-On-board Diagnostics via Bluetooth (optional)

-CAN Bus enabled - wide baud rate capabilities and multi PGN reference



Why e-Wall

-Local assembly and technical support

-Optional Off-site diagnostics (Bluetooth)

-Nationwide support and maintenance

-Built for home and small businesses

Lithium-Ion batteries are selected for:

Lower lifetime costs

Lower impact on the environment

Longer warranty available

Lighter weight

Higher efficiency

Higher cycle life

Better maintained voltage during the discharge cycle

Greater depth of discharge

Lower maintenance

Predictable Service Life

Product Name	**5**	**10**	**16**	**21**	**27**	**32**	**37**	**43**	**48**	**54**
Cell Type (LFP prismatic) [Ah]	105	210	315	420	525	630	735	840	945	1050
Battery nominal capacity [kWh]	5.4	10.8	16.1	21.5	26.9	32.3	37.6	43.0	48.4	53.8
Battery usable capacity 80% DoD [kWh]	4.3	8.6	12.9	17.2	21.5	25.8	30.1	34.4	38.7	43.0
Design life	> 16 years (> 5 500 cycles) expected life at 80% DoD									
Warranty	> 10 years (> 4000 cycles) @ 25°C									
Nominal energy [Ah]	105	210	315	1420	525	630	735	840	945	1050
Module voltage [V]	51,2 V_{DC} nominal									
Maximum discharge current (continuous) [A]	100	200	300	400	500	600	700	800	900	1050
Maximum discharge current (not continuous - 3sec) [A]	125	250	375	500	625	750	875	1000	1125	1250
Discharging cut-off voltage (LVD) [V]	50									

Operating Conditions	Temperature range recommended charge -> (0 °C~55 °C) Discharge -> (-20°C~55°C)
Protection class	IP22 - no solid ingress and near vertical water droplets
Safety	Safe cell design Prismatic cells with venting device.
BMS	BMS system with safety lines & multi-level fault detection system
Cells thermal management	BMS controlled active cooling
Transport	UN 3480, CE
	Mechanical
Dimensions (W x H x L) [mm] (Storage unit) Dimensions (W x H x L) [mm] (Control box)	680 x 700 X 200 deep 300 x 270 X 200 deep
Weight [kg] (Storage Unit | Control Box)	45 | 5
Communication	CAN Bus

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