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i-G3N
INNOVATION GENERATION

WALL
MOUNT



iWALL
SPEC SHEET

PREMIUM, LITHIUM-ION PHOSPHATE BATTERIES



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 can be added.

Using trusted LiFePO₄ (LFP) cell technology the i-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.

i-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 i-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 CANbus 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)
- CANbus enabled - wide baud rate capabilities and multi PGN reference

Support



078 335 7653



Support@i-g3n.com

General



010 006 0157



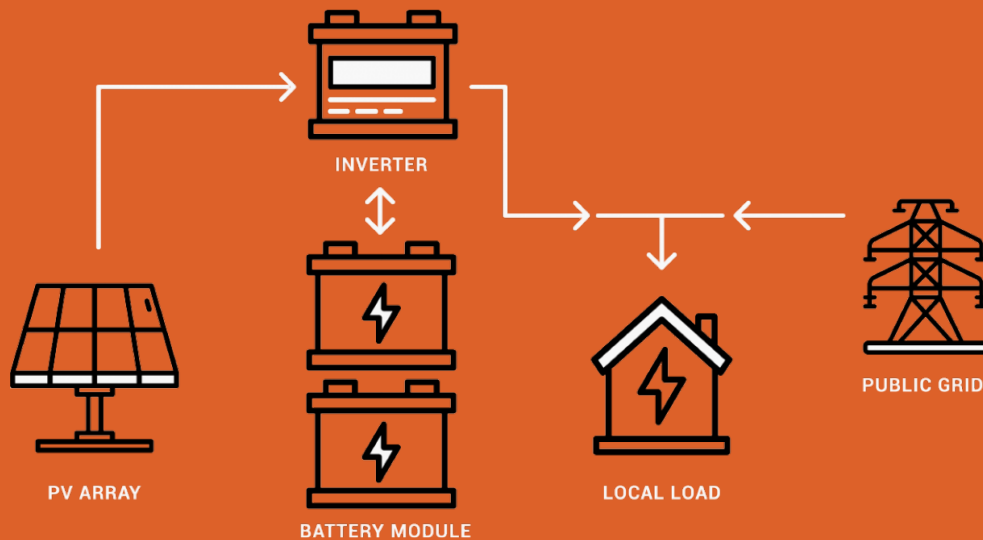
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Unit D6 Design Blvd Northriding
Johannesburg 2169

Why i-Wall

- Local assembly and technical support
- Optional Off-site diagnostics (Bluetooth)
- Nationwide support and maintenance
- Built for home and small businesses



Reasons for lithium-ion being selected include:

- 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

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Specs

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i-Wall	5	10	16	21
Cell Type	Lithium Ion Phosphate (LiFePO4) battery			
Battery nominal capacity [kWh]	5.4	10.8	16.1	21.5
Battery usable capacity 80% DoD [kWh]	4.3	8.6	12.9	17.2
Design life	>15 years (>5500 cycles) expected life at 80% Dod			
Warranty	>10 years (>4000 cycles) @ 25°C			
Nominal energy [A]	105	210	315	420
Module Voltage [V]	51,2 V _{DC} Nominal			
Maximum discharge current (continuous) [A]	100	200	300	400
Maximum discharge current (not continuous - 3sec) [A]	125	250	375	500
Discharging cut-off voltage [LVD]	50V			
Operating Conditions	Temperature range recommended (-10°C~40°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			
Cell thermal management	BMS controlled			
Transport	UN 3480, CE			
Dimensions [mm] (W x H x L) Storage Unit	680 x 700 X 200 deep			
Dimensions [mm] (W x H x L) Control Box	300 x 270 X 200 deep			
Weight Storage unit	Storage unit 45Kg Control box 5Kg			
Communication	CANbus			

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Specs

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i-Wall	27	32	37
Cell Type	Lithium Ion Phosphate (LiFePO4) battery		
Battery nominal capacity [kWh]	26.9	32.3	37.6
Battery usable capacity 80% DoD [kWh]	21.5	25.8	30.1
Design life	>15 years (>5500 cycles) expected life at 80% Dod		
Warranty	>10 years (>4000 cycles) @ 25°C		
Nominal energy [A]	525	630	735
Module Voltage [V]	51,2 V _{DC} Nominal		
Maximum discharge current (continuous) [A]	500	600	700
Maximum discharge current (not continuous - 3sec) [A]	625	750	875
Discharging cut-off voltage [LVD]	50V		
Operating Conditions	Temperature range recommended (-10°C~40°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		
Cell thermal management	BMS controlled		
Transport	UN 3480, CE		
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Communication	CANbus		

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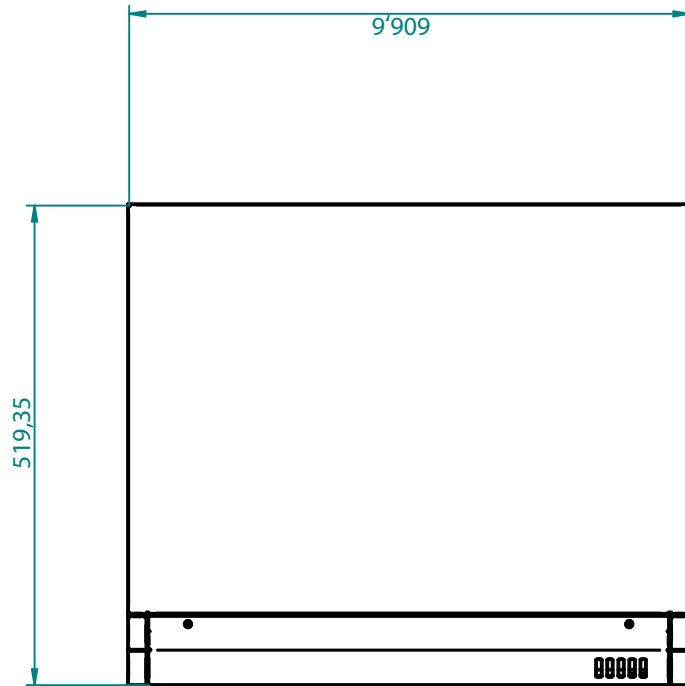
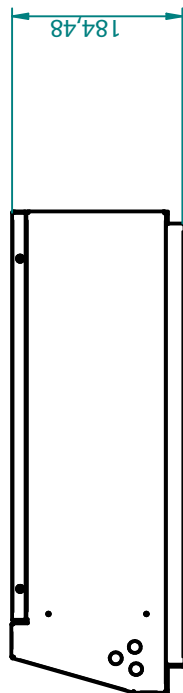
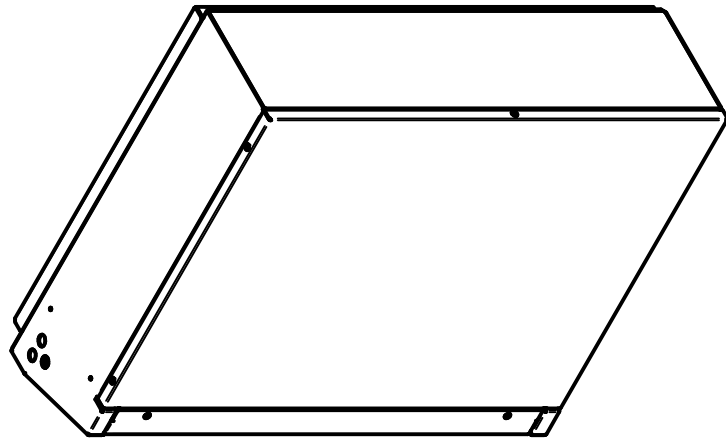
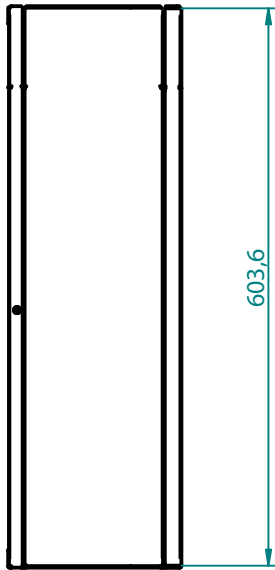
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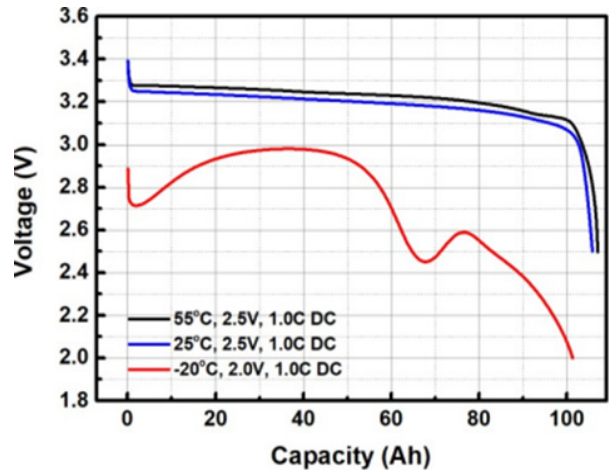
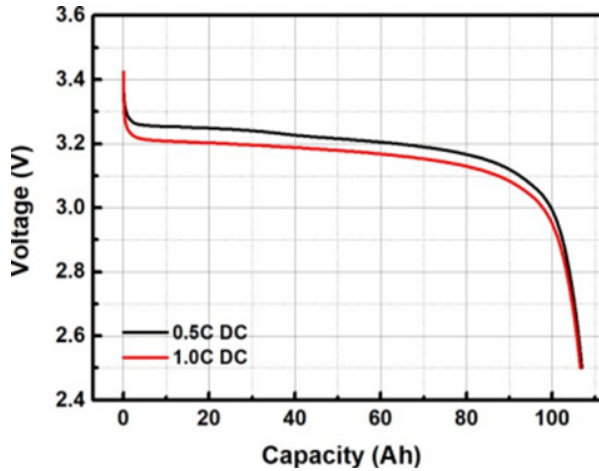
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Discharge Rate Temperature graph



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Information

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- Warehouse unit D6
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