

**i-G3N**  
INNOVATION GENERATION



# e-Stack

Spec Sheet

Premium, South African-made Lithium Iron Phosphate batteries



LEVEL 2 BBBEE CONTRIBUTOR

## High-quality energy storage unit

The e-Stack was designed to represent the next generation of smart home and business Lithium Iron Phosphate batteries. It comes standard with built-in intelligence and stable discharge performance that enables the provision power to your home/business for extended periods of time.

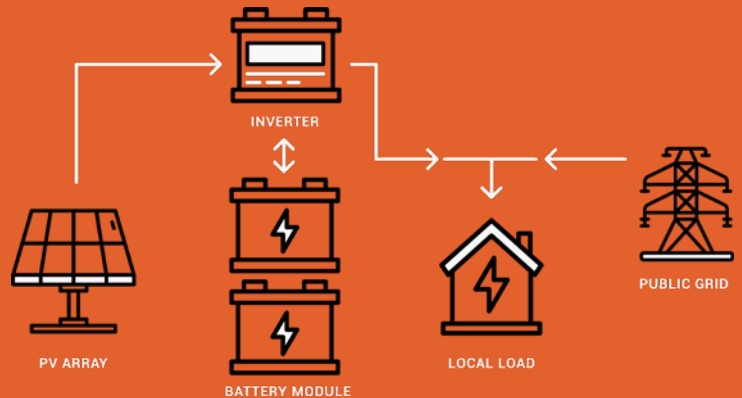
Using trusted LiFePO<sub>4</sub> (LFP) cell technology, the e-Stack offers a full 5 kW (100A) sustained output per unit. Up to 5 storage expansion units can be paralleled together.

Unique to the e-Stack design, is the use of high-quality LiFePO<sub>4</sub> chemistry which allows it to withstand the most rigorous usage. It is designed to provide business/home users with more than 4000 cycles at 80% depth of discharge (DoD) and comes fully equipped with unrivalled monitoring capability.

Trust the e-Stack to serve as the perfect Lithium Iron Phosphate battery for your power backup and off-grid needs.

## Top Features

- Scalable in 5.4 kWh increments
- Full suite CAN Bus integration with Victron and SunSynk inverters
- 5 kW (100A sustained) output
- Floor standing, stackable battery
- On-board Diagnostics via Bluetooth(optional)
- CANbus enabled - wide baud rate capabilities and multi PGN reference grid



## Why e-Stack

- Local assembly and technical support
- Optional Off-site diagnostics (via VRM or the system)
- Nationwide support and maintenance
- Built for homes and small businesses

## Lithium-Ion batteries are selected for:

- |                                 |  |
|---------------------------------|--|
| Lower lifetime costs            | Higher cycle life                                    |
| Lower impact on the environment | Better maintained voltage during the discharge cycle |
| Longer warranty available       | Greater depth of discharge                           |
| Lighter weight                  | Lower maintenance                                    |
| Higher efficiency               | Predictable Service Life                             |

<b>Product Name</b>	<b>5</b>	<b>10</b>	<b>16</b>	<b>21</b>	<b>27</b>
Cell Type (LFP prismatic) [Ah]	105	210	315	420	525
Battery nominal capacity [kWh]	5.4	10.8	16.1	21.5	26.9
Battery usable capacity 80% DoD [kWh]	4.3	8.6	12.9	17.2	21.5
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	420	525
Module voltage [V]	51,2 V <sub>DC</sub> nominal				
Maximum discharge current (continuous) [A]	100	200	300	400	500
Maximum discharge current (not continuous - 3sec) [A]	125	250	375	500	625
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]	266x445x580				
Weight Storage unit [kg]	50				
Communication	CAN Bus				

