

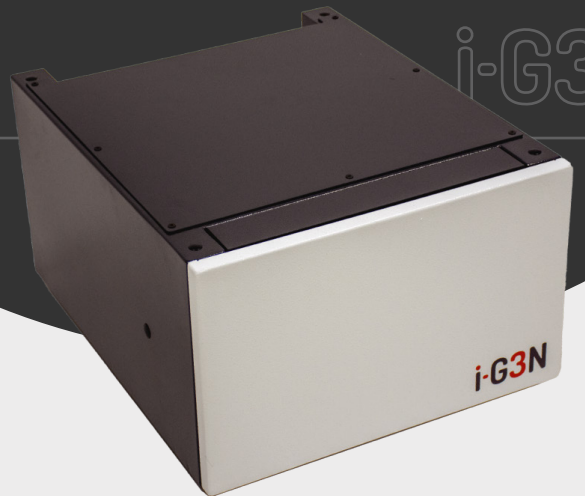
3

266.8



**i-G3N**  
INNOVATION GENERATION

**STACKABLE**



**iSTACK**  
SPEC SHEET

PREMIUM, LITHIUM-ION PHOSPHATE BATTERIES



## High-quality energy storage unit

The i-Stack has been designed to represent the next generation of smart home and business lithium ion 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  $\text{LiFePO}_4$  (LFP) cell technology the i-Stack offers a full 5 kW (100A) sustained output per unit. Up to 5 storage expansion units can be paralleled together.

Unique to the i-Stack design, is the use of high-quality chemistry  $\text{LiFePO}_4$  cells which allows it to withstand the most rigorous usage. It is designed to provide business/home users with more than 4000 cycles at 80% DoD and comes fully equipped with unrivalled monitoring capability.

Trust the i-Stack to serve as the perfect lithium ion phosphate battery for your power backup and off-grid needs.

## Top Features

- Scalable in 5.4 kWh increments
- Full suite CANbus 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

### Support



078 335 7653



Support@i-g3n.com

### General



010 006 0157



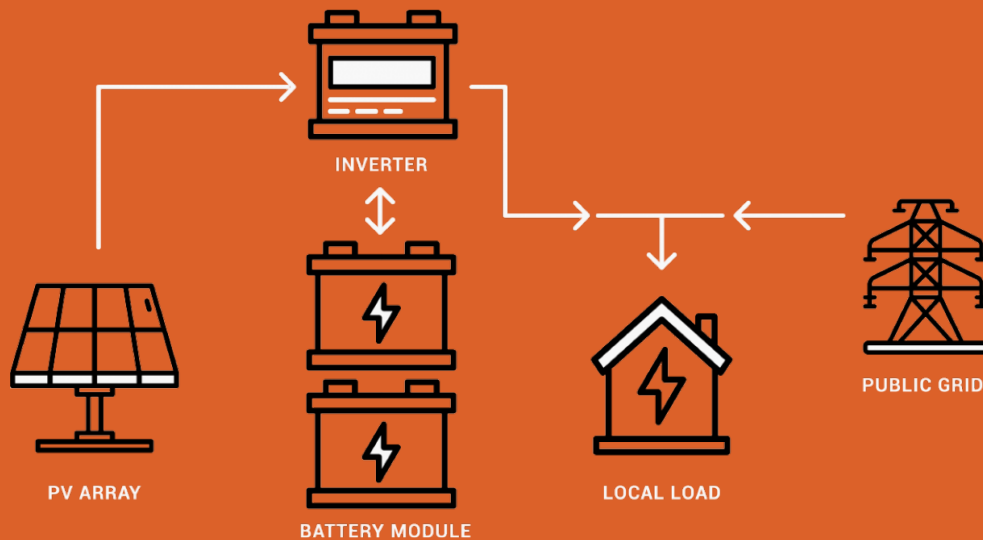
www.i-g3n.com



Northlands Deco Park New Market Road,  
Unit D6 Design Blvd Northriding  
Johannesburg 2169

## Why i-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



### 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

#### Support

- 📞 078 335 7653
- ✉ Support@i-g3n.com

#### General

- 📞 010 006 0157
- 🌐 www.i-g3n.com



Northlands Deco Park New Market Road,  
Unit D6 Design Blvd Northriding  
Johannesburg 2169

# Specs

G

iG3N

3

<b>i-Stack</b>	<b>5</b>	<b>10</b>	<b>16</b>	<b>21</b>	<b>27</b>
Cell Type	Lithium Ion Phosphate (LiFePO4) battery				
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	>15years (>5500 cycles) expected life at at 80% Dod				
Warranty	>10 years (>4000 cycles) @ 25°C				
Nominal energy [A]	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]	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)	266x445x580				
Weight Storage unit	50Kg				
Communication	CANbus				

## Support



078 335 7653



Support@i-g3n.com

## General



010 006 0157



www.i-g3n.com

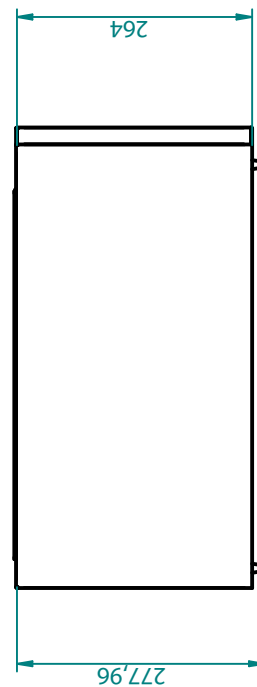
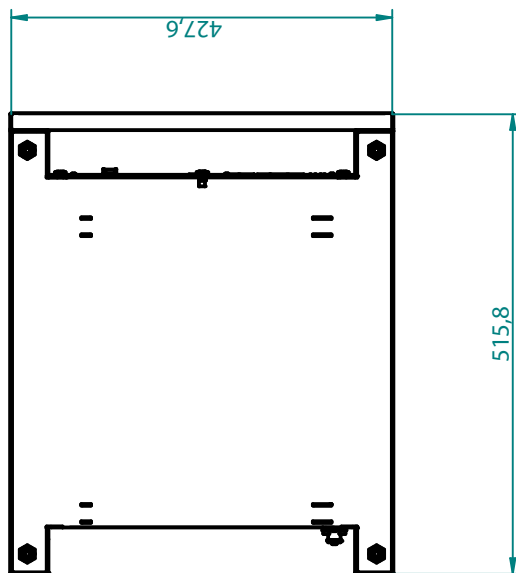
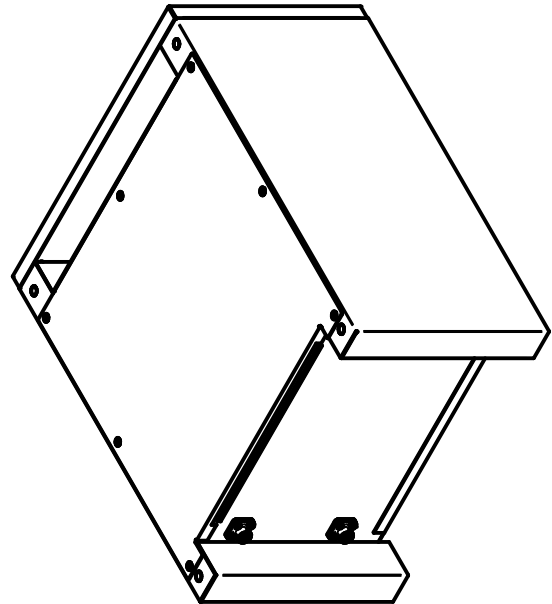


Northlands Deco Park New Market Road,  
Unit D6 Design Blvd Northriding  
Johannesburg 2169



# i-G3N

## Dimensions



### Support



078 335 7653



Support@i-g3n.com

### General



010 006 0157

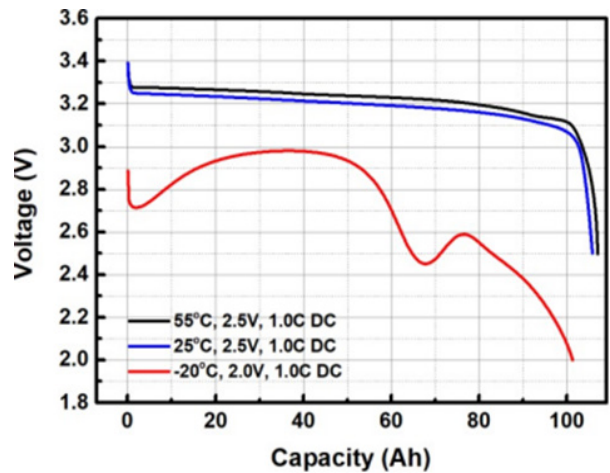
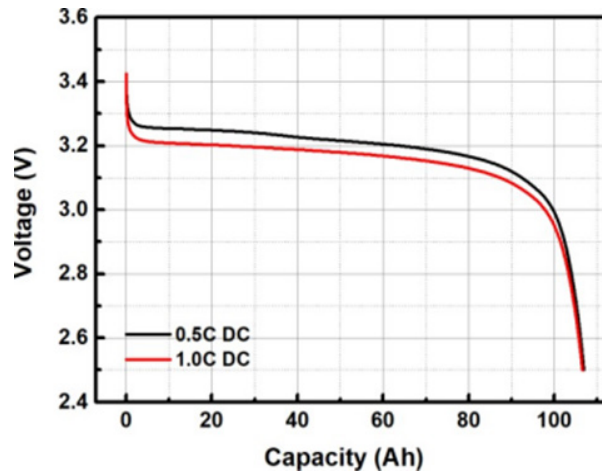


www.i-g3n.com



Northlands Deco Park New Market Road,  
Unit D6 Design Blvd Northriding  
Johannesburg 2169

# Discharge Rate Temperature graph



3

i-G3N

## Information

### Support



078 335 7653



Support@i-g3n.com

### General



010 006 0157



www.i-g3n.com



Warehouse unit D6  
Northlands Deco Park  
Northriding  
Johannesburg  
2188



N