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+

**IG**  
POWER INNOVATION

219,42

+

**SCALABLE**  
CAPACITY



# ZRANGE

SPEC SHEET

PREMIUM, LITHIUM-ION PHOSPHATE BATTERIES

# High-quality energy storage unit



## Features



### Flexible

- \* Compact & Compact Design.
- \* Easy to install and maintain
- \* Scalable from 5kWh up to 76.8kWh(15 in parallel)



### Compatible

- \* Compatible with all major LV inverters
- \* Remote Monitoring Capability (Wi-fi enabled)



### Robust

- \* 1C Rated
- \* Higher Cycle Life
- \* Rack Mountable
- \* Low Self Consumption



### Compliance

- \* IEC, TÜV, MSDS compliant



### Applications

- \* Low Voltage
- \* Residential
- \* Telecommunication Stations
- \* Server Rooms

#### Support



078 335 7653



Support@i-g3n.com

#### General



010 006 0157



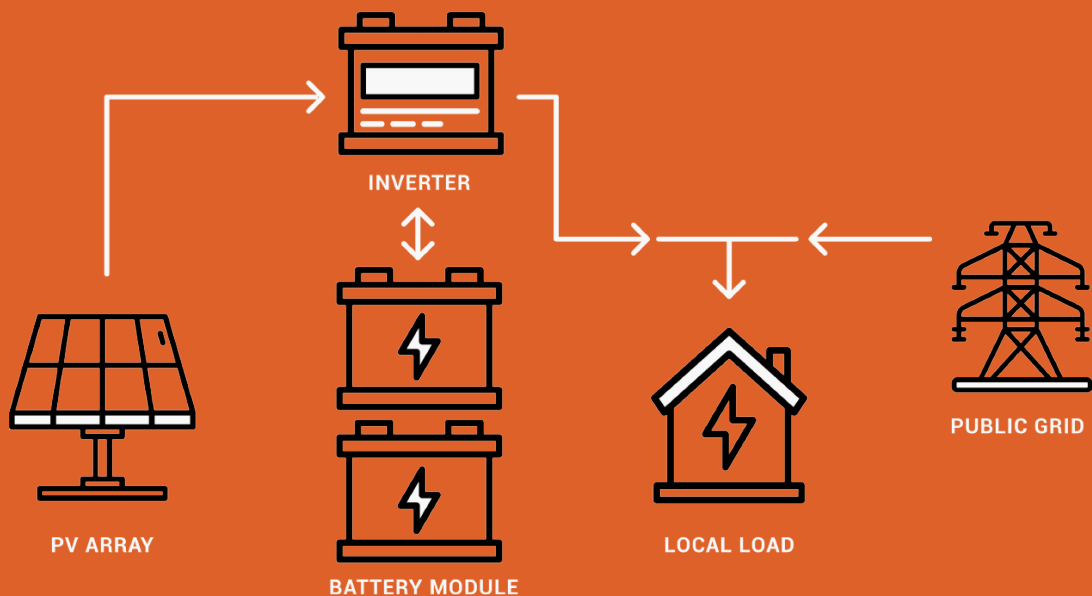
www.i-g3n.com



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

## Why Z-Range

- 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:

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

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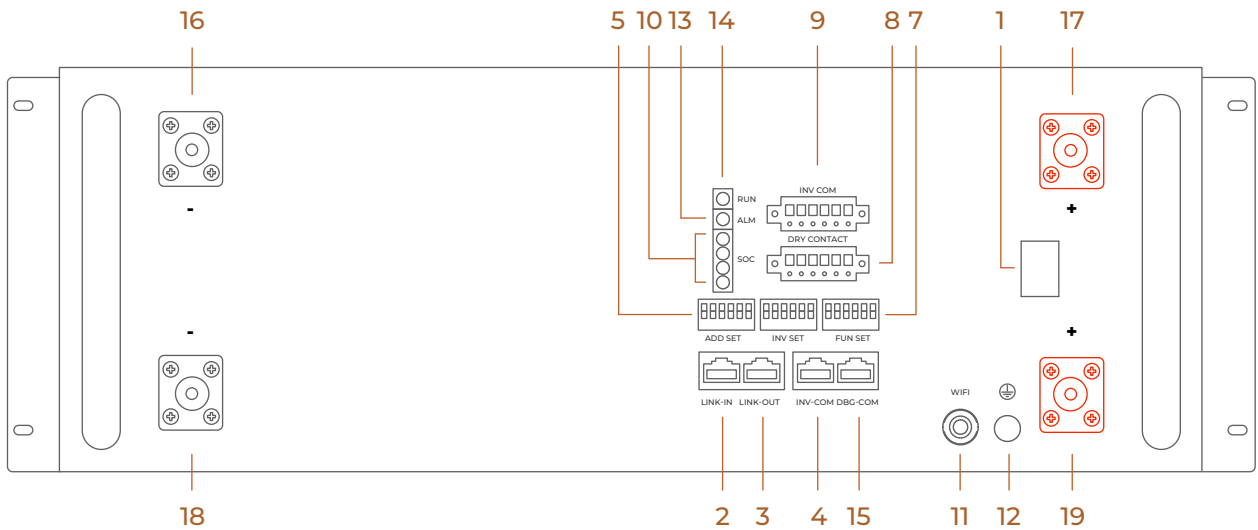
## Specification

### Z-Range

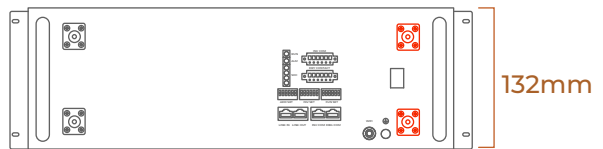
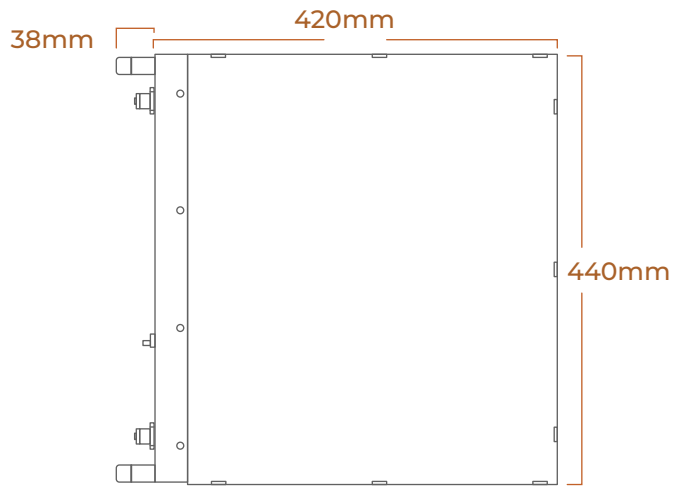
Cell Type	Lithium Ion Phosphate (LiFePO <sub>4</sub> )
Nominal capacity [kWh]	5.120
Usable capacity 80% DoD [kWh]	4.096
Design life	10+ Years @25°C 80%DOD
Warranty	10 years (4000 cycles) @ 25°C
Nominal capacity [Ah]	100
Paralles function	Supports 15 units in parallel (76.8kWh)
Nominal voltage [V]	51,2
Maximum charge / discharge current (continuous) [A]	≤100
Peak charge / discharge current (not continuous - 3sec) [A]	≤110
Operating voltage range [v]	47 ~ 56
Operating charge temperature	(0°C~+45°C)
Operating discharge temperature	(-10°C~+45°C)
Protection class	IP55
Safety	Safest LFP design with BMS protection built in
BMS	BMS system with safety & multi-level fault decetion - multi inverter pairing CAN bus
Cell thermal management	BMS controlled
Certification	UN 3480, CE, TUV, IEC 62619
Dimensions [mm] (W x H x L)	408(L)*440(W)*132(H)
Weight [kg]	45 ± 1
Communication	CAN / Wi-Fi & RS485



# Appearance



1. ON/OFF switch
2. LINK IN (Multi-device parallel connection)
3. LINK OUT (Multi-device parallel connection)
4. INV COM: Inverter communication port
5. ADD SET: Address setting dip switch
6. INV SET: Inverter protocol dip switch
7. FUN SET: Battery capacity dip switch
8. DRY CONTACT: Reserved
9. INV COM: Inverter communication port (AXPERT)
10. SOC: State of Charge
11. ANTENNA PLUG
12. EARTH POINT
13. ALARM
14. RUN : Status indicator
15. DBG COM: Debug communication port
16. Negative terminal 1
17. Positive terminal 1
18. Negative terminal 2
19. Positive terminal 2





# Information

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