

# PRODUCT INTERGRATION



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# i-G3N

INNOVATION GENERATION

## i-STACK & i-WALL

Product Brochure



South Africa's Leading Lithium  
Battery Manufacturer

# i-SERIES

Using trusted LiFePO<sub>4</sub> (LFP) cell technology the i-Series offers a full 5.4 kW (100 A) sustained output per unit. Up to 63 units can be paralleled together. The i-Series is designed to provide business/home users with more than 4 000 cycles at 80% depth of discharge (DoD) and comes fully equipped with unrivaled monitoring capability.

The battery allows for CANbus RS485 and RS232 communication, making it a perfect match for most of the leading inverter manufacturers in the market. The battery visualizes state of charge, and any alarms occurrences with LED lights on the front display of the unit.

# i-WALL

The wall-mounted design supports multiple layout options without compromising floor space and to protect the battery from possible flood damage. The battery has a modular design which allows for additional storage capacity to be added.

# i-STACK

The i-Stack is designed as a floor standing energy storage unit. The i-Stack has a modular design which allows you to start small and grow the system as your needs grow. A maximum of 5 i-Stacks can be stacked before a second silo should be stacked.



i-Stack 5.4



i-Wall 5.4

i - Stack	5,4	10,8	16,2	21,6	27	32,4	37,6
i - Wall							
Cell Type (LFP Prismatic) [Ah]	105	210	315	420	525	630	735
Battery Nominal Capacity [kWh]	5,4	10,8	16,2	21,6	27	32,4	37,8
Battery Usable Capacity 80% DoD [kWh]	4,32	8,64	12,96	17,28	21,6	25,92	30,24
Warranty	> 10 years ( > 4000 cycles) @ 25 °C						
Nominal Energy [Ah]	105	210	315	420	525	630	735
Nominal Module Voltage [V]	51,2 Vnom						
Maximum Discharge Current (cont.) [A]	100	200	300	400	500	600	700
Maximum Discharge Current (not cont. - 3 s) [A]	120	240	360	480	600	720	840
Maximum Charge Current [A]	90	180	270	360	450	540	630
Discharge cut-off Voltage [V]	47V						
Operating Conditions	Recommended Operating Temperature: Charging - (0 °C ~ 55 °C) Discharging - (-20 °C ~ 55 °C)						
Protection Class	IP22 - No solid ingress and near vertical water droplets						
Transport	UN3480, CE						
Dimensions (W x H x L) [mm]	430 x 266 x 500						
Weight [kg]	> 45 kg						
Communication	Modbus, RS232, CANbus						
Stacking	Can stack up to 5 units before getting second silo, parallel up to 63 units						
	Parallel up to 63 units						
DC Connection Method	Central DC Combiner box						