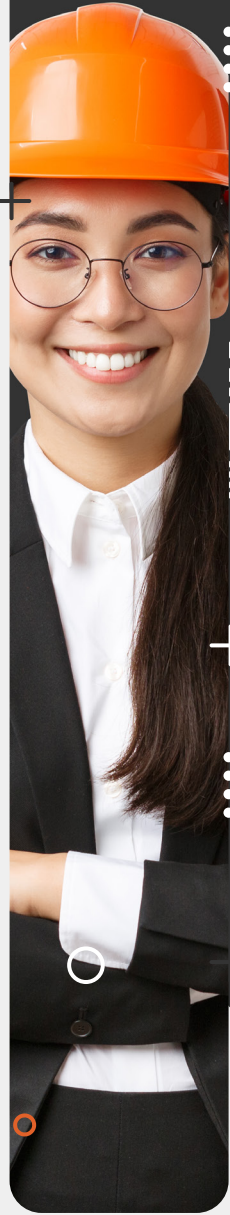


3



258,30

219,42



19,80

IG
POWER INNOVATION



GIGA RACK

SPEC SHEET

HIGH VOLTAGE | PREMIUM, LITHIUM-ION PHOSPHATE BATTERIES

BACK-UP POWER SOLUTION

Features



Flexible

- * Modular Design. Easy to install and maintain
- * Scalable up to 6.8MWh
- * Flexible voltage range



Compatible

- * Compatible with all major HV inverters; Ates, Megarevo, Solis, Deye, SunSynk and Sinexcel
- * Compatible with energy management systems



Robust

- * Safe & reliable operation with 3 level BMS architecture
- * Advanced thermal management



Compliance

- * Product: IEC, MSDS compliant
- * Cells: IEC, UL, UN [EVE & CATL]



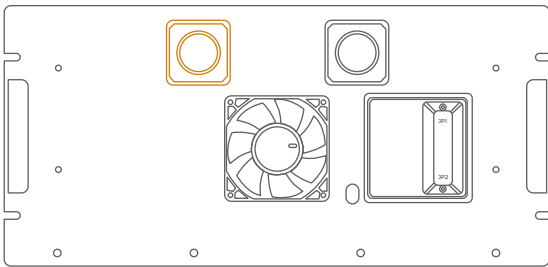
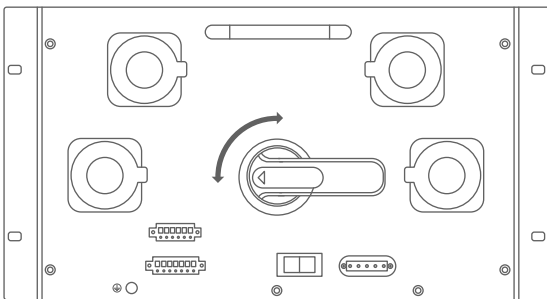
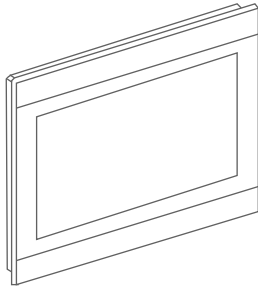
Applications

- * High Voltage
- * Micro Grids
- * Large Commercial & Industrial

Why Giga Rack

- Local assembly and technical support
- Optional Off-site diagnostics
- Built for commercial & industrial applications
- High Voltage capability [PDU supports up-to 1500V]
- Scalable architecture and easy expansion
- Advanced active cooling system
- Enhanced power output
- Black start-capable





IG3N Giga Control architecture

Level 3 HMI Screen BAU

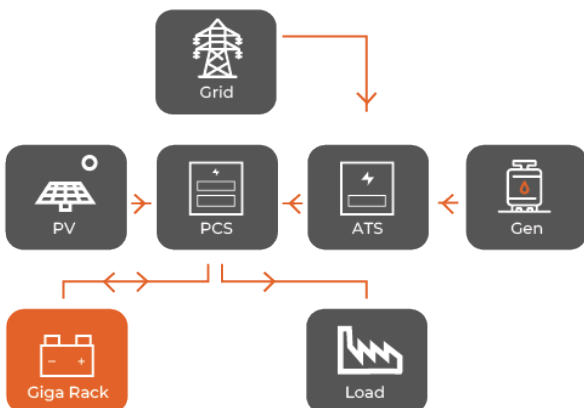
PCS, EMS communication and multi-rack data collection.

Level 2 PDU

Current and resistance measurements, multi-pack data collection, alarm tracker and DC breaker.

Level 1 Battery Pack

Cell balancing, voltage and temperature measurements.



SYSTEM TOPOLOGY



Specification

	Giga 114	Giga 129	Giga 143	Giga 157	Giga 172	Giga 186	Giga 200	Giga 215
Cell Type	Lithium-Ion Phosphate (LiFePO4) battery							
Nominal Capacity [Ah]	280							
Single Module Nominal Voltage [V]	51.2							
	All packs in series							
Weight [Kg]	1152.4	1259.4	1401.2	1508.2	1715.1	1822.1	1929.1	2088.3
No. of Packs	8	9	10	11	12	13	14	15
Nominal Voltage[V]	409.6	460.8	512	563.2	614.4	665.5	716.8	768
Voltage Range[V]	358.4 – –454.4	403.2 – 511.2	448 – 568	492.8 – 624.8	537.6 – –681.6	582.4 – 738.4	627.2 – 795.2	672 –852
Max. Charge/Discharge Current (cont.) [A]	200	200	200	200	200	200	200	200
Rated Capacity [kWh]	114.6	129	143.3	157.6	172	186.3	200.7	215
Usable Capacity @ 80% DoD [kWh]	91.7	103.2	114.6	126.1	137.6	149	160.5	172
System Architecture (per rack)	All packs in series and all racks in parallel							
*Max Possible Rated Parallel Capacity (32 parallel racks)[MWh]	3.64	4.12	4.57	5.02	5.50	5.95	6.40	6.88
*Max Possible Rated Parallel Charge/Discharge Current(Cont.)[A]	6400	6400	6400	6400	6400	6400	6400	6400
Operating Temperature of Cells	Charge: 0~55 °C / Discharge: -10~55 °C							
Protection Class	IP20 - No solid ingress and near vertical water droplets (containerised)							
Transport	UN3480, CE							
Communication	Modbus, RS232, CAN Bus, TCP/IP							
Stacking	Floor standing, rack mounted design							
Warranty	10 Years (6000 cycles) @ 0°C to 40°C ambient							

Support



078 335 7653



Support@i-g3n.com

General



010 006 0157

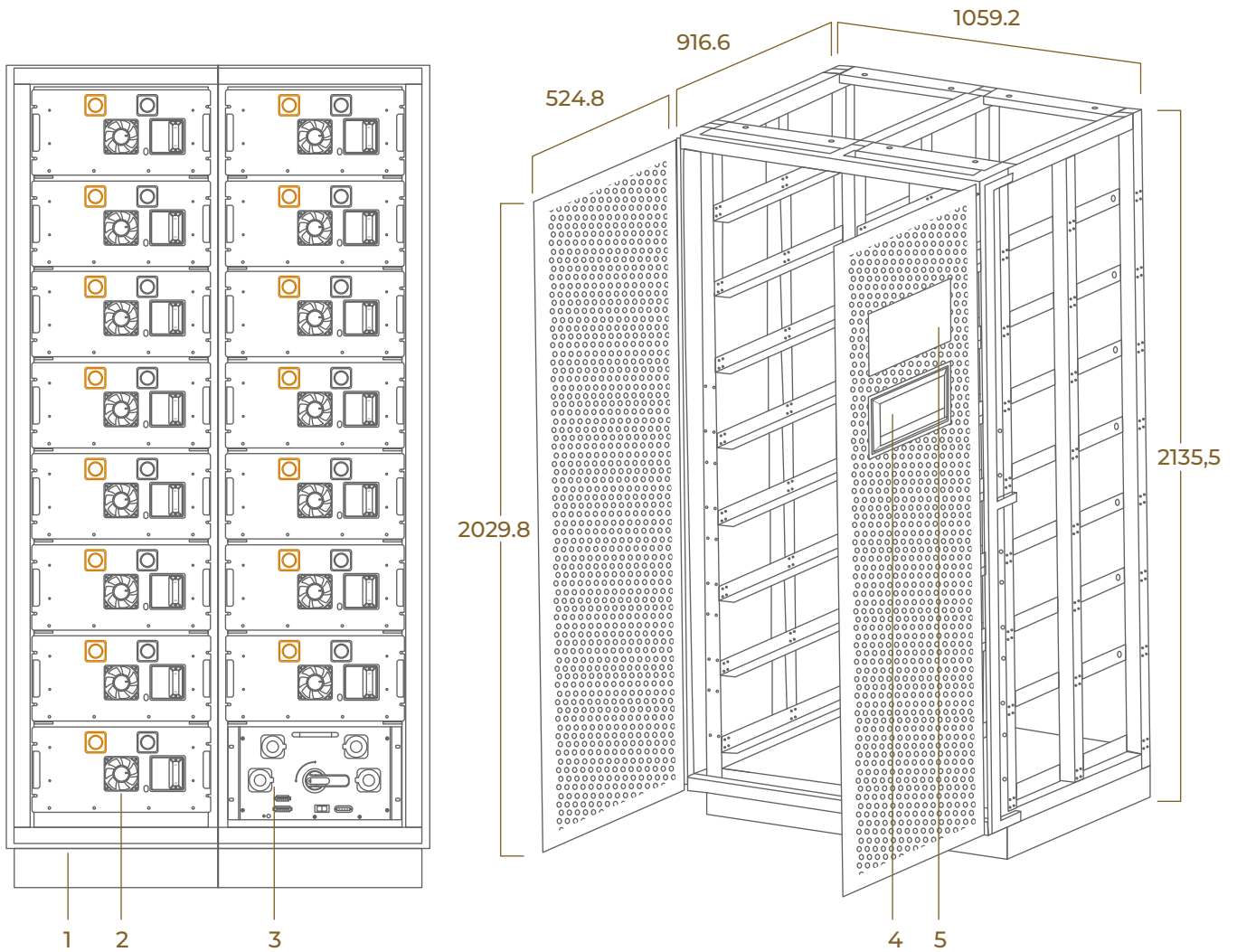


www.i-g3n.com



Northlands Deco Park New Market Road,
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Johannesburg 2169

Appearance





- 1. RACK
- 2. BATTERY
- 3. PDU
- 4. HMI
- 5. BAU







Information


Support

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