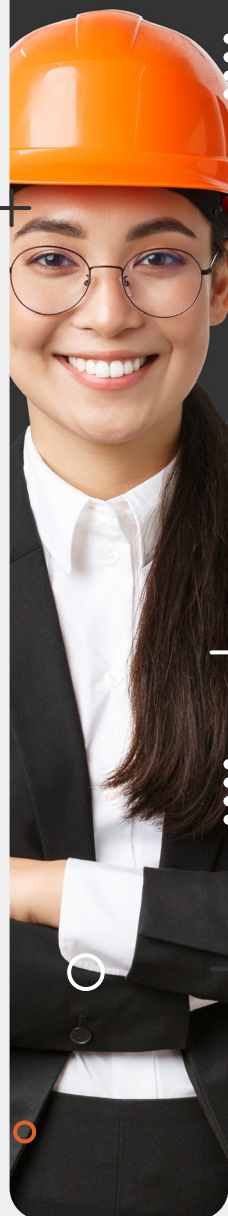


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i-G3N  
INNOVATION GENERATION

HIGH  
VOLTAGE



# GIGA RACK

SPEC SHEET

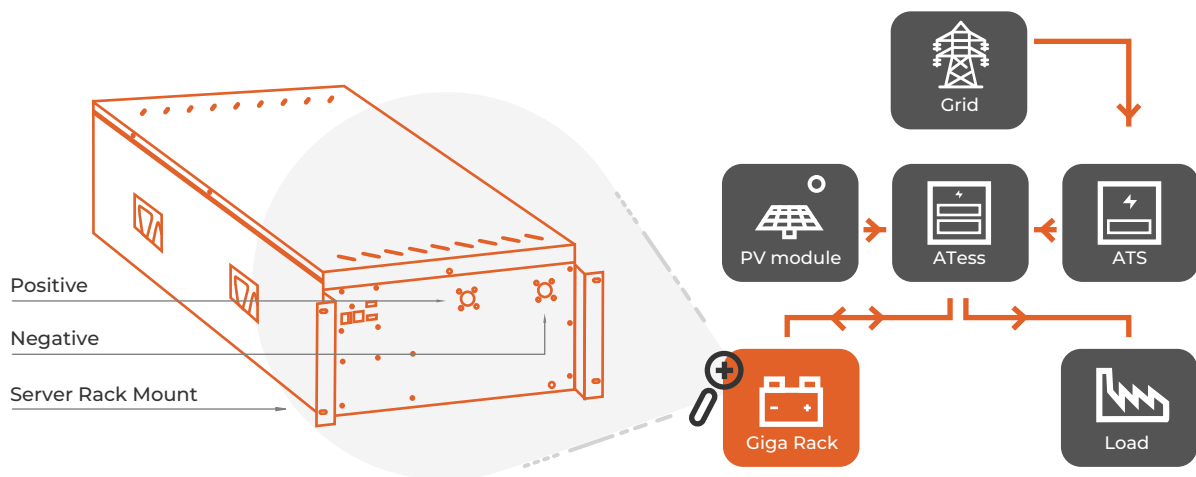
**HIGH VOLTAGE** | PREMIUM, LITHIUM-ION PHOSPHATE BATTERIES

# BACK-UP POWER SOLUTION

## GIGA RACK

Using trusted LifePO<sup>4</sup> (LFP) cell technology the Giga Rack offers a full 143.36 Kw (280 A) sustained output per unit. The Giga Rack is designed to provide commercial and industrial users with more than 6000 cycles at 90% depth of discharge (DoD) and comes fully equipped with unrivaled monitoring capability.

The Giga Rack boasts a modular rack design, allowing for client customization. The battery can be installed into a full containerized solution or into a substation room, as part of a complete turnkey solution. The solution can be used as part of peak-shaving or as an off-grid solution



## Why Giga rack

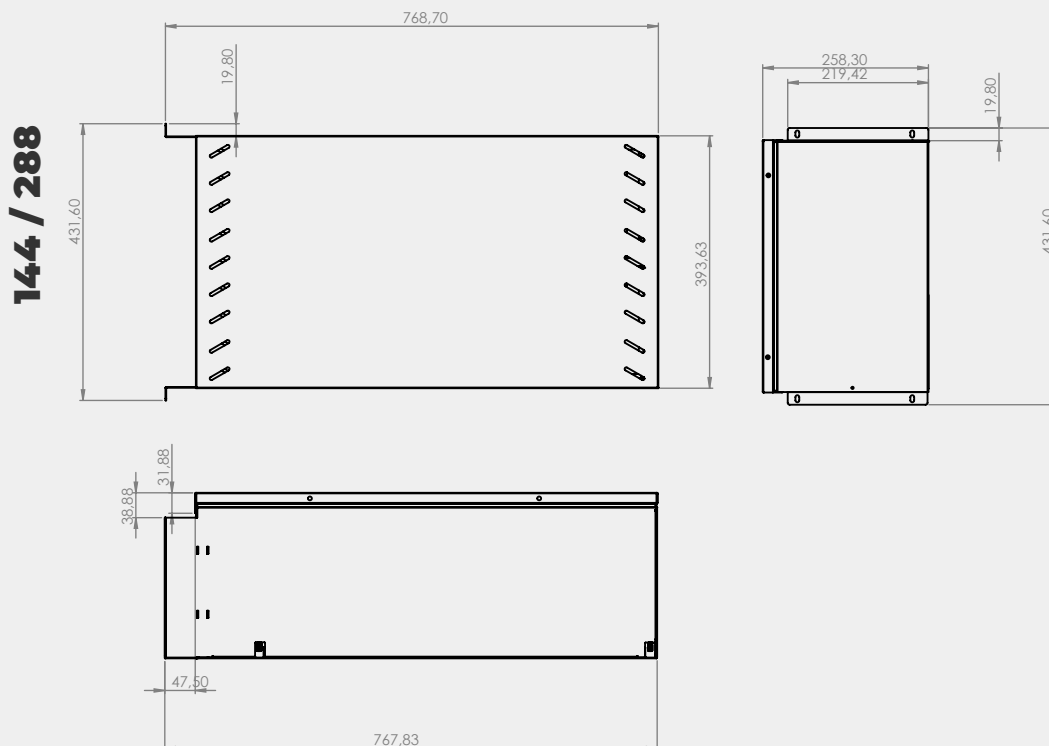
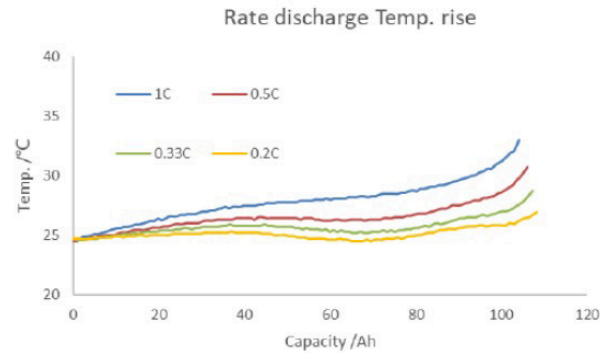
- Local assembly and technical support
- Optional Off-site diagnostics
- Built for commercial & industrial applications



## Specs

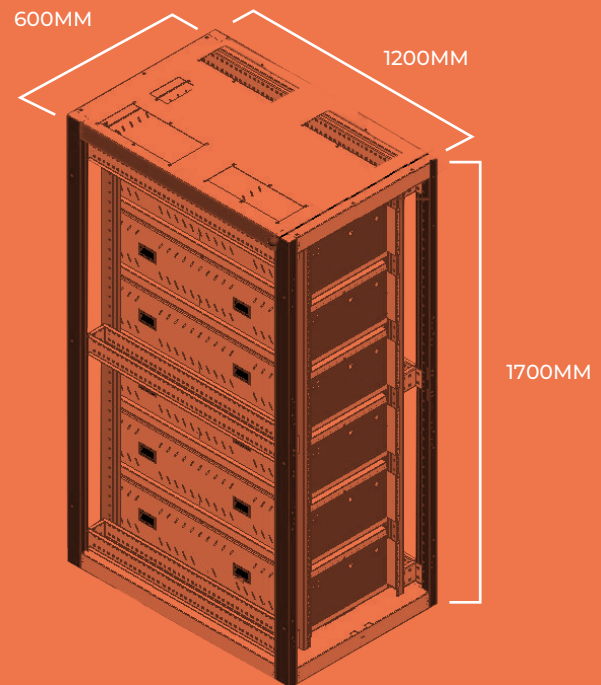
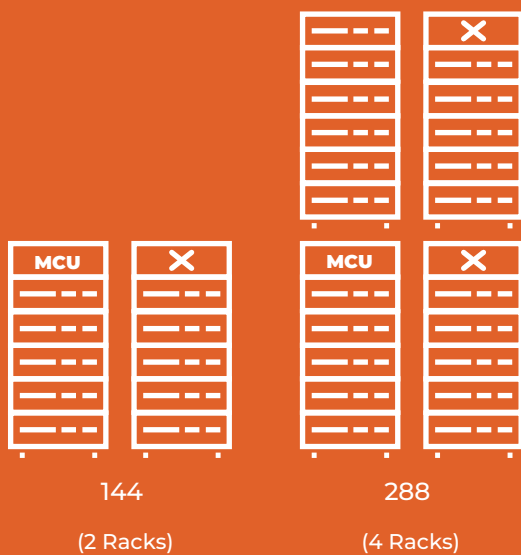
GigaRack	86	143	286	573	1003
Cell Type	Lithium-Ion Phosphate (LiFePO4) battery				
Cell Nominal Capacity [Ah]	280				
Pack Nominal Voltage [V]	51.2 V				
Rack Nominal Voltage[V]	307.2	512	512	512	512
Rack Voltage Range[V]	259.2 – 345.6	432 – 576	432 – 576	432 – 576	432 – 576
No. of packs in each rack	6	10	10	10	10
No. of parallel racks	1	1	2	4	7
Rack Max. Charge/Discharge Current (cont.) [A]	200	200	200	200	200
Rack Max. Charge/Discharge Current (not cont. - 3s) [A]	280	280	280	280	280
Bank Max. Charge/Discharge Current (cont.) [A]	200	200	400	800	1700
Bank Max. Charge/Discharge Current (not cont. - 3s) [A]	280	280	560	1120	1960
Rack Nominal Capacity [kWh]	86	143	143	143	143
Bank Nominal Capacity(all racks combined) [kWh]	86	143	286	573	1003
Bank Usable Capacity 90% DoD [kWh]	77.4	128.7	257.4	515.7	902.7
Rack Weight [Kg]	864	1 440	1 440	1 440	1 440
Bank Weight(all racks combined) [Kg]	864	1 440	2 880	5 760	10 080
Operating Temperature(oC)	Recommended Operating Temperature: (15°C - 35°C)				
Protection Class	IP22 - No solid ingress and near vertical water droplets (containerised)				
Transport	UN3480, CE				
Communication	Modbus, RS232, CAN Bus				
Stacking	Floor standing, rack mounted design				
Warranty	> 10 Years (>6000 cycles) @ 25°C				







# Number of Battery modules Per **Giga Rack**



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## Information

### Support



078 335 7653



Support@i-g3n.com

### General



010 006 0157



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### Address



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