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ABOUT THE NGCUBE

Due to the increasing demand for energy storage in the industry and rental markets, BAIYILED has launched the NGCUBE as the solution to fulfil the set of requirements.

The NGCube is a (mobile) Energy Storage System delivering sustainable power across a wide variety of applications. It's designed to provide local demand with temporarary power or as a long term pre-assembled plug and play solution for rapid deployment.

The NGCUBE addresses the ever increasing need of a clean power supply for temporary solutions in urban and remote areas. It can not only be used on events, construction sites or temporary EV charging hubs, but is also implemented to support grid stability and can be used as pernament solution.

APPLICATIONS

Peak Shaving / Load Shifting
Boost limited grid connection with the NGCUBE System for peak power needs. Recharge during low demand periods.

Emergency Power Back-up
Utilise the NGCUBE System as an uninterruptible power source.

Enable Renewables
Improve integration and maximise utilisation of renewable energy with the NGCUBE System.

E-Mobility / EV Charging
Deploy the NGCUBE System as an energy source for faster EV charging.

Micro Grid
Create a new & flexible grid by integrating local renewable energy and monitor real time data with the NGCUBE System.

Energy Trading
Charge the NGCUBE at low tarrifs or using renewable energy and supply it to the grid at high tarrifs periods.

FEATURES

- State of the art batteries
- Modular scalability
- Maximal flexibility

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SPECIFICATIONS

Battery type	(LFP) LiFePO4
System battery capacity	67 kWh - 215 kWh
Connection	Grid, Generator, AC coupled Solar/Wind, off-grid
Fire safety design	Automatic fire suppression
Rated charging and discharging power	30Kw / 60Kw
Input connection	3P + N 43A 400VAC /3P + N 86A 400VAC ; compliant with EN 50160:2010
Input Frequency	50 Hz; compliant with EN 50160:2010
Output voltage	3P + N 230/400Vac
Output Frequency	50 Hz; compliant with EN 50160:2010
Earthing	From grid connection or external earthing pin
System controller and communication	Ethernet, Modbus TCP/IP
Energy management system	The EMS offers a live web portal which allows remote monitoring and controlling of the system. The EMS platform includes the following type of features: system overview, power and FCR profiles, State of Charge control, peak shaving, monitoring, alarms, reports
Operating temperature range	-20°C to + 50°C Optional: temperature range extension (-40°C)
Climatization	Forced air cooling
Standards	NEN3140, ISO9001, ISO14001, ISO 27001, Low Voltage Directive 2014/35/EU, EMC directive 2014/30/EU, Batteries directive 2006/66/EU, HD IEC 60364: 2005, NEN 1010: 2015, IEC 61439-2: 2011, EN 61000-6-2:2005, EN 61000-6-4:2007+A1:2011, IEC 62619: 2017, IEC 60947, IEC 61439, IEC 62271-100, IEC 62271-102, IEC 62271-103, IEC 62271-200, Road and sea transport ADR class 9, UN 3536, UN 3481 (Lithium-ion Batteries in equipment)
Noise level	<75dB
Warranties	Product warranty of 5 years. Battery capacity performance guarantee up to 10 years (depending on the load profile)
Operation & maintenance	Various Service Level Agreements available
IP-value of enclosure	IP55
Dimensions (l x w x h)	1.90m x 1.23m x 2.10m
Weight	Max 2,500 kg

Note:

- Other system configurations can be looked into upon request.

- This datasheet is subject to misprints, errors and technical modifications.

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