NANTE ELECTRIC

HOUSEHOLD ENERGY STORAGE SYSTEM

Sample product data sheet and customer information checklist

SAMPLE CONFIGURATION	Fields marked “To be confirmed” must be completed with model-certified data before commercial publication.

Product Overview

A modular household energy storage solution built around lithium iron phosphate (LiFePO4) cells, an intelligent battery management system (BMS), and a high-frequency off-grid photovoltaic inverter with MPPT control. The system is intended to coordinate solar generation, stored energy and household loads for backup power and improved self-consumption.

• LiFePO4 cell chemistry for household energy storage applications	• Intelligent BMS for battery monitoring and protection
• Integrated MPPT solar charge control	• Modular floor-standing architecture
• Suitable for solar self-consumption and backup applications	• Configuration support based on load, PV array and installation conditions

Technical Specifications

Parameter	Sample / required value
Battery chemistry	Lithium iron phosphate (LiFePO4)
System architecture	Modular battery + high-frequency off-grid inverter
Battery management	Intelligent BMS
Solar controller	Integrated MPPT
Nominal battery energy	To be confirmed by selected model
Nominal battery voltage	To be confirmed by selected model
Rated AC output power	To be confirmed by selected model
AC output voltage / frequency	To be confirmed by target market
PV input / MPPT range	To be confirmed by inverter configuration
Communication	To be confirmed (e.g. RS485 / CAN / Wi-Fi options)
Operating temperature	To be confirmed

Parameter	Sample / required value
Ingress protection	To be confirmed for installation environment
Dimensions / weight	To be confirmed
Cycle life / warranty	To be confirmed by model and commercial terms

Customer Information Checklist

Use this checklist when preparing a product brief or requesting a configured household storage solution.

Information to provide	Customer input
Application	Solar self-consumption / backup / off-grid / other _____
Site	Country, city, indoor/outdoor location, altitude and environment _____
Electrical standard	Grid voltage, phase, frequency and local compliance requirements _____
Load profile	Peak load, average daily consumption and critical backup loads _____
Backup requirement	Required backup power and target autonomy duration _____
PV array	Installed or planned PV capacity, string voltage and inverter details _____
Battery target	Required usable energy, expansion plan and preferred installation footprint _____
Interfaces	Meter, generator, EV charger, EMS/BMS and communication requirements _____
Documentation	Datasheet, drawing, certification, test report and warranty requirements _____
Delivery	Project schedule, destination and expected quantity _____

Contact

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