TECHNICAL REQUIREMENTS

BMS and Inverter Communication Requirements

Use this worksheet to collect the technical information needed before confirming a battery and inverter pairing for an OEM/ODM project.

CAN or RS485 availability alone does not prove compatibility. The selected battery and inverter must be checked at protocol, voltage, current, firmware, configuration and protection levels.

1. System identity

[ ] Battery model	Model / revision: _____
[ ] Inverter model	Model / revision: _____
[ ] System voltage	[ ] Low voltage [ ] High voltage Nominal: _____
[ ] System phase	[ ] Single-phase [ ] Three-phase [ ] Other: _____
[ ] Operating mode	[ ] Grid-tied [ ] Backup [ ] Off-grid [ ] Generator [ ] Hybrid

2. Electrical and communication parameters

DOCUMENT	WHY IT MATTERS	REQUEST / STATUS
Voltage range	Battery operating range and inverter permitted range.	_____
Charge current	Continuous and peak charge limits; reserve settings.	_____
Discharge current	Continuous and peak discharge limits; duration.	_____
Communication	CAN / RS485 / other protocol and baud rate.	_____
Cable and pinout	Connector, pin definition, termination and shield.	_____
Firmware	Minimum firmware and configuration file required.	_____
Parallel / series	Allowed quantity, master BMS and addressing rules.	_____

3. Test and commissioning evidence

CHECK	WHAT TO CONFIRM	NOTES / VERSION
[ ]	Approved pairing Provide a current approved battery-inverter pairing list or technical confirmation.	
[ ]	Communication test Record normal status, SOC, voltage, current, alarms and shutdown behavior.	
[ ]	Protection test Record limits and recovery for over-voltage, under-voltage, over-current and temperature.	
[ ]	PV and AC checks Confirm PV input, AC phase, grid frequency, backup output and generator logic.	
[ ]	Document revision Record the revision date of all files used for the technical decision.	

Project notes

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Final compatibility remains subject to the selected models, current technical documents, firmware and project conditions. Do not quote universal compatibility based only on a connector type or nominal voltage.