Inverter × HV Battery Compatibility & Grid Certificate Reference

Compiled strictly from cited OEM release lists, datasheets, and official ZEREZ records (382 evaluated pairings, 175 manufacturer-listed pairs). Linker does not operate an independent test lab.

Version 2026.11

DLK-REF-COMPAT-2026-11-EN

- **Released (OEM)** — Explicitly named in cited OEM release list.
- **Conditional / Accessory** — Firmware, BMS, min. modules, Voc, or BC2 applies.
- **— Not Listed** — Absent from cited OEM docs—do not assume release.
- **No DE ZEREZ** — 0 ZEREZ records; not cleared for German grids.

01 · GOODWE COMPATIBILITY MATRIX (RESIDENTIAL & SMALL C&I)

GoodWe ESA (ETA-G20 3P & EHA-G20 1P) × BAT-D-G20 / G21

GoodWe ESA DS V2.1 · Manual V1.5

Inverter Series (SKU)	GW5.1 / 8.3 BAT-D-G20	GW6.0 / 9.0 BAT-D-G20	GW5.1 / 8.3 BAT-D-G21	ZEREZ Status & Technical Conditions
GoodWe ETA-G20 (3P) GW5K / 6K / 8K / 9.999K / 10K / 12K / 15K / 20K / 25K / 29.999K / 30K	Released	Conditional	Released	**VDE 4105 + EN 50549-1/-2 PDF + active ZEREZ** (ZE-XB00-0GJE-0001..0011). Max **6 modules/column**, up to 12/system with expansion kit. IEC 62619 CB (JPTUV-173638-M1) covers 5.1/8.3 G20 & G21, not 6.0/9.0.
GoodWe EHA-G20 (1P) GW3K / 3.6K / 5K / 6K / 8K / 10K	Conditional	Conditional	—	No DE ZEREZ EMEA datasheet lists G20 modules only (G21 not listed). **0 certificate PDFs, 0 ZEREZ records**; 5–10 kVA single-phase exceeds DE 4.6 kVA unbalance cap—**not for German grids**.

01B · GOODWE C&I HYBRID INVERTERS × HV BATTERY CABINETS

GoodWe ET-10 (50 kW), ET-G10 (75–100 kW) & ETR-G10 (80–125 kW)

GoodWe Overview V029.1 (2026-09-10)

Inverter Model	Lynx C 101–156	BAT-AC 61.4 kWh	BAT-AC 112.6 kWh	BAT-LC 208.9 kWh	BAT-LCD 208.9 / 261.2	Binding Conditions & Certificates
GW50K-ET-10 50 kW · 200–800 V	Cond.	Cond.	Cond.	—	—	**Lynx C:** BMS ≥ 25600 (SN ≥ 2024-06-01), max 3 identical; single C101 capped at 42.24 kW. **BAT-AC:** Inverter firmware **ARM ≥ 10**; GW61.4 cannot reach full 50 kW.
GW75K-ET-G10 75 kW · 300–800 V	—	—	—	—	—	Not explicitly named in GoodWe Overview V029.1 'ET (80–100 kW)' column or 2025-04-07 statement—obtain written OEM pairing confirmation per project.
ET-G10 (80–100K) GW80K / 99.99K / 100K	—	Cond.	Rel.	Rel.	—	**BAT-AC 112.6 & BAT-LC 208.9:** V029.1 + signed statement (2025-04-07). **GW61.4-BAT-AC:** Derated output (275.5–346.6 V vs. 300 V inverter start-up).
ETR-G10 (80–124.99K) 80K / 99.99K / 100K / 110K / 124.99K	—	—	—	—	**261.2:** Cond. 208.9: —	**Paired ONLY with GW261.2-BAT-LCD-G10!** Mandatory: **PV string open-circuit voltage Voc > 813 V** (ETR DS V1.1 fn. *4). Parallel systems require SEC3000C **≥ V7.8.19**.
GW125K-ETR-G10 125 kW / 137.5 kVA max	—	—	—	—	**261.2:** Cond. **208.9:** Cond.	**261.2-LCD:** V029.1 + manual (**PV Voc > 813 V**). **208.9-LCD:** listed in ETR manual V1.0 (pp. 24–27) but omitted from Warranty Overview V029.1 p. 6—confirm prior!

Cited GoodWe Primary Sources: GoodWe Battery Compatibility Overview EMEA (20260910-EMEA-EN-V029.1) · GoodWe Signed Compatibility Statement BAT100KWH (2025-04-07, TÜV Rheinland) · GoodWe ESA 5–30 kW Datasheet V2.1 & Manual V1.5 · GoodWe ETR 80–125 kW Datasheet V1.1 & Manual V1.0. Cross-brand pairings (e.g., GoodWe inverter × SAJ battery) are not listed in the cited OEM documents.

Technical parameters reflect manufacturer documentation verified as of 2026-11. Net B2B pricing, project availability, freight terms (EXW Barleben or DAP project site), and delivery schedules apply exclusively per formal written project quotation. Final grid approval rests with the local DSO.

02 · SAJ COMPATIBILITY MATRIX (RESIDENTIAL & C&I SYSTEMS)

SAJ H2-T3, HS2, HS3 & CHS2 × HV Battery Modules & Cabinets

SAJ Config. V1.0 · B2 V1.2 · HS3 V4

SAJ Inverter / System	BU2-5.0-HV1 (1 Module)	B2-10..25 (2-5×BU2+BC2)	BU3-5.0 TV2-PRO	CB2-HV5 (57-100 kWh)	Binding System & Voltage Conditions
SAJ H2-T3 (10-30K) 10/12/15/20/25K & 30K-DE	✕ < 180 V	◐ W/ BC2	—	—	**Mandatory BC2-HV1** top control unit (cell-free, 100 A max fault current) + **min. 2 × BU2-5.0-HV1** (B2-10.0: 179.2-230.4 V). Single module (89.6-115.2 V) sits below H2 floor (180-800 V).
SAJ HS2-T2-X (5-10K) 5K / 6K / 8K / 10K All-in-One	✕ Min. 2 Mod.	◐ Cond. 2-5 × BU2	—	—	**2 to 5 × BU2-5.0-HV1** directly in the HS2 tower (180-600 V; HS2 manual V0.3 p. 12). Separate **Chint DTSU666** 3-phase smart meter required.
SAJ HS3-T2 (5-12K) 5 / 6 / 8 / 10 / 12K W/G-PX	—	—	● Rel. 1-8 Mod.	—	**1 to 8 × BU3-5.0-TV2-PRO** (450 V nom., 380-500 V, 4.8 kWh usable/module). Chint DTSU666/iDM411 included.
SAJ CHS2-29.9K / 30K / 50K All-in-One C&I Cabinet	—	—	—	● Rel. Factory	Factory-integrated cabinet with 4-7 × CBU2-14.33-HV5 + CBC2-HV5 (51.5-90.2 kWh usable, 150 A DS / 140 A V0.2 manual). Parallel 2-10 via **eManager-C1 Pro**.

02B · GERMAN ZEREZ REGISTRY (NELEV § 4) & CERTIFICATE AUDIT

ZEREZ-ID & Certificate Audit of Active Grid-Tied Lineup (2026-11)

zerez.net · Checked 2026-11-28

Equipment Family	VDE-AR-N 4105 Cert.	4105 ZEREZ-ID	VDE-AR-N 4110/4120 & ZEREZ-ID	Doc Status
GoodWe ETA-G20 (5-30K)	A3 50706429 0001	ZE-XBO0-0GJE-0001..0011	— (≤ 30 kW LV)	● PDF + ZEREZ
GoodWe EHA-G20 (3-10K, 1P)	0 PDFs	0 ZEREZ	0 ZEREZ	✕ No DE ZEREZ
GoodWe GW50K-ET-10	A3 50626232 0001	ZE-XBO0-AQPM-0001	968/GI 2226.01/25 · ZE-T3PX-FP42-0002	● 4105+4110 PDF
GoodWe ET-G10 (75-100K)	A3 50694726 0001	ZE-XBO0-1CWG-0001..0004	250008REC014-CER · ZE-PWRY-PB3X-0001..07	● 4105+4110 PDF
GoodWe ETR-G10 (80-125K)	A3 50734294 (4105/03.26)	ZE-XBO0-0Q9C-0004..0009	260046RECH14-PTCER (til 08/2028)*	◐ 4110 PTCER
GoodWe HT 1100V (100/120K)	A3 50531237 (ZEREZ)	ZE-XBO0-UQQA-0001 / 0003	2621/0136-1-CER · ZE-X3NN-LPSK-0004/02	◐ 4105 on req.
GoodWe ESA 125/261-LCN-G10	A3 50677141 0001	ZE-XBO0-2MNO-0001	250008REC010(-E1)-CER · ZE-X3NN-NMMR-0005	● Full PDF + Z.
SAJ CHS2 (29.9 / 30 / 50K)	A3 50661614 0001 (PDF)	ZE-XD9R-FHK0-0001/02/04	968/GI 2291.01/25 · ZE-T3PX-NSO1-0002/05/06	● 4105 PDF / 4110 Z.
SAJ H2-T3 (10-30K-DE)	A3 50617818 (ZEREZ)	ZE-XD9R-TDTA-0001..0009	— (≤ 30 kW LV)	◐ ZEREZ + DoC
SAJ HS2-T2-X (5-10K)	A3 50586831 (ZEREZ)	ZE-XD9R-FCS1-0001..0004	— (≤ 10 kW LV)	◐ ZEREZ + DoC
SAJ HS3-T2 (5-12K W/G-PX)	A3 50681505 (ZEREZ)	ZE-XD9R-QBVE / FTPJ..	— (≤ 12 kW LV)	◐ ZEREZ + DoC
Pylontech OPTIMUS L260-OMNI	0 PDFs (in progress)	0 ZEREZ	0 ZEREZ	✕ No DE ZEREZ

Note on NELEV § 4 & ETR-G10 Prototype Confirmation (*): Since 2025-02-01, installers file the exact ZEREZ-ID with the German DSO (verify firmware match!). *GoodWe ETR-G10 currently holds a transitional VDE-AR-N 4110 prototype confirmation (260046RECH14-PTCER, valid through 2028-08-10). SAJ H2/HS2/HS3 & CHS2 (4110) hold active ZEREZ entries; OEM PDF copies are coordinated per project.

03 · INTEGRATED SYSTEMS, MANDATORY SMART METERS, EMS & PARALLEL CONTROLLERS

Smart Meter, EMS & Mandatory Accessory Mapping for Commissioning

41 Verified System Rules

Inverter / System	Included Meter	Required Meter / CT	EMS, Parallel Controller & Backup Accessories
GoodWe ETA-G20 (5–30K)	Built-in + 120 A CT	GM330 / GMK330 (if >120 A)	EzManager3000 (EN 18031) · GW30K/60K-STS (inv. port max 30 kW / 63 A!)
GoodWe GW50K-ET-10	GM330 / GM3000 incl.	CTs nA/5A separate	SEC3000C (up to 10 inverters parallel) · Backup: STS200-80-10 (SW ≥ 4.400)
GoodWe ET-G10 (80–100K)	GM330 incl. (1-unit)	CTs nA/5A (200–5000 A)	SEC3000C (parallel systems) · Backup: GW125K-STS-G10 (<10 ms*)
GoodWe ETR-G10 (80–125K)	GM330 + CTs nA/5A	CTs nA/5A (200–5000 A)	SEC3000C (mandatory ≥ V7.8.19 for parallel) · GW125K-STS-G10
SAJ H2-T3 (10–30K-DE)	Smart meter + 3×CT incl.	10 m cable incl.	BC2-HV1 mandatory for B2 stack · opt. ATS1-T63-A (50 ms) · eManager-C1 Pro
SAJ HS2 (5–10K) / HS3 (5–12K)	HS3: DTSU666/iDM411 incl.	HS2: Chint DTSU666 sep.	eSolar AIO3 (Wi-Fi/LAN) · opt. ATS1-T63-A (50 ms)
SAJ CHS2 (29.9 / 30 / 50K)	System meter integrated	Built-in STS (20 ms)	eManager-C1 Pro required for 2–10 parallel cabinets (IP65 wall-mounted)
GoodWe ESA 125/261 & Pylontech L260	Integrated cabinet EMS	External grid CTs / EZA	Closed all-in-one cabinets; no external third-party battery interface

System Control Meter vs. Utility Billing Meter: GoodWe GM330 / GMK330 are internal energy-control meters (not PTB/MID utility billing meters). Chint DTSU666 declares MID B+D / EN 50470-1/-3 in its brochure (certificate PDF on request) and does not replace the utility metering operator's billing meter.

03B · COUNTRY COMPLIANCE VERIFICATION LEGEND (DE · AT · CH · DK)

Honest Grid Compliance Boundaries (DE · AT · CH · DK)

No Automatic Cross-Equivalence

DE Germany

PDFs + ZEREZ Active

Framework: VDE-AR-N 4105 (≤30 kVA internal, >44 A CT), VDE-AR-N 4110 (≥135 kW / MV + E.15), **NELEV § 4 (ZEREZ-ID)**, EnWG § 14a (>4.2 kW) & Solarspitzengesetz (60%).
Linker Status: Hosted OEM PDFs & verified ZEREZ-IDs per Table 02B; EHA-G20 & L260-OMNI clearly restricted.

AT Austria

Verify Per Project

Framework: TOR Erzeuger Typ A v1.4 (BGBl. II No. 301/2026, eff. 06/2026) + OVE R 25; >30 kVA external disconnect; **Oesterreichs Energie inverter whitelist**.
Honest Status: Currently **0 AT-specific TOR/OVE PDFs** hosted on de-linker.com—VDE 4105 does not auto-substitute Annex A3; verify per project.

CH Switzerland

Verify Per Project

Framework: VSE/AES NA/EEA-NE7 – CH 2025 (>30 kVA remote active-power control), Art. 14 NIV / Sicherheitsnachweis; non-EU customs (BAZG) & **SENS vRG / INOBAT VEG** via Swiss importer.
Honest Status: Currently **0 CH-specific PDFs** hosted; local DSO settings and import duties are confirmed per project.

DK Denmark

Check Positivliste

Framework: Green Power Denmark (GPD) Positivlisten (separate solar inverter & battery storage lists) per Energinet TR 3.2.1 / 3.2.2 / 3.3.1 + DK country parameters.
Honest Status: Currently **0 DK TR PDFs** hosted; EN 50549-1 alone does not prove Positivliste approval—check exact SKU & firmware per project.

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DOCUMENTATION & COMPLIANCE DESK
Technical Verification & OEM PDFs
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RELEASE SCOPE

Technical parameters and OEM release statuses are re-verified for your specific system configuration and target grid prior to issuing a formal written quotation. Final grid connection approval rests exclusively with the local DSO.

Technical parameters reflect manufacturer documentation verified as of 2026-11. Net B2B pricing, project availability, freight terms (EXW Barleben or DAP project site), and delivery schedules apply exclusively per formal written project quotation. Final grid approval rests with the local DSO.