

BESS COMPARISON GUIDE 2026

Commercial & Industrial
Battery Storage Solutions

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SYSTEMS

15



TECHNICAL
PARAMETERS

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DECISION
GUIDE

Manufacturer	solar edge	HUAWEI	SUNGROW	PIXII	SOLAX	GROWATT	GROWATT	GROWATT	Deye	KSTAR	SOLINTEG
Model	CSS-0D	LUNA2000-215	PowerStack 125/255	PowerShaper XL-P	TRENE - P125B261L-E	WIT 125K-XHU+RISE 261	WIT-HU + AXE	WIT-XHU + AXE	SUN-50K + B05-G Pro 200	KAC125DP2+BC260DE2A	M2HT-125kW + E2BR-257kWh
											
System configuration	CSS-0D 197 + 2x PCS050	LUNA200-241	PowerStack 125/255	PowerShaper XL-P	TRENE 125/261	WIT 125K-XHU+RISE 261	1x WIT-HU + AXE Towers 200	2x WIT-XHU + AXE 200	2x SUN-50K + B05-G Pro 200	KAC125DP2+BC260DE2A	M2HT-125kW + E2BR-257kWh
BESS topology	AC-coupled	AC-coupled	AC-coupled	AC-coupled	AC-coupled	Hybrid inverter	Hybrid inverter	Hybrid inverter	Hybrid inverter	Hybrid inverter	Hybrid inverter
Rated power	100 kW	108 kW	125 kW	112 kW	125 kW	125 kW	100 kW	100 kW	100 kW	125 kW	125 kW
Installed capacity	197,12 kWh	241.0 kWh	257.0 kWh	225.4 kWh	261.0 kWh	261 kWh	200.0 kWh	200.0 kWh	204.8 kWh	261.2 kWh	257.0 kWh
Max. usable capacity	187,3 kWh kWh	241.0 kWh	257.0 kWh	202.9 kWh	247,95 kWh	247,95 kWh	180.0 kWh	180.0 kWh	184.3 kWh	235.1 kWh	231,3 kWh
Max. system configuration	10 × (1 MW / 2 MWh)	30 × (3.2 MW / 7.2 MWh)	25 x (3,12 MW / 6,42MWh)	Unlimited	16 × (2 MW / 4.17 MWh)	10x (1,25 MW / 2,6 MWh)	3 × (300 kW / 600 kWh)	3 × (150 kW / 540 kWh)	10x (0,5MW/1,64MWh)	20 × (2.5 MW / 4.66 MWh)	10 × (1.25 MW / 2.57 MWh)
Product warranty	10 years	5 years	5 years	10 years	10 years	10 years	10 years	10 years	10 years	5 years	10 years
Battery warranty	10 years / 8,000 cycles @ 95% DoD	10 years / 7,300 cycles @ 100% DoD	10 years / 8760 cycles @ 100% DoD - 65%SOH	10 years / 7600 cycles @ 90% DOD - 70%SOH	10 years @ 95% DOD - 70% SOH	10 years @ 90% DoD	10 years @ 90% DoD	10 years @ 90% DoD	10 years / 6,000 cycles @ 90% DoD	10 years / 8000 cycles @ 90% DoD - 70%SOH	10 years / 6,000 cycles @ 90% DoD
Cooling method	Air-cooled (air conditioning)	Hybrid cooling – air / liquid	Liquid-cooled	Air-cooled (air conditioning)	Liquid-cooled	Liquid-cooled	Air-cooled	Air-cooled	Air-cooled	Air-cooled (air conditioning)	Air-cooled (air conditioning)
Dimensions (W×D×H) (cm)	130 × 120 × 236	115 × 180 × 210	115 × 161 × 245	120 × 132 × 232	135 × 135 × 235	140 x 130 x 215	4 × (57 × 66 × 196)	4 × (57 × 66 × 196)	4x (53x60x229)	132 x 144 x 241	135 × 114 × 226
Base system weight	2,360 kg	2,800 kg	3,100 kg	2,440 kg	2,800 kg	2,600 kg	2,093 kg	2,162 kg	2,536 kg	2,710 kg	3,174 kg
Grid compliance models (SOLSOL)	–	In preparation	In preparation	Available at SOLSOL	Available at SOLSOL	-	Available at SOLSOL	In preparation	–	Available at SOLSOL	In preparation
Installation type	Indoor / outdoor	Outdoor	Outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor*	Indoor / outdoor*	Indoor	Outdoor	Indoor / outdoor
Backup capability	SolarEdge CBI – STS for 2 cabinets	No isolation transformer required.	No isolation transformer required.	Off-grid box by SOLSOL	SolaX AC switching cabinet (up to 6x TRENE units)	Integrated backup output (up to 3 devices)	Integrated backup output (100 kW)	Integrated backup output (2 × 50 kW) + diesel generator input	Integrated backup output (2 × 50 kW) + diesel generator input	Support for parallel backup output connection	Solinteg off-grid box (connection of up to 4 cabinets)
Commisioning	Paid commissioning	Commissioning by SOLSOL/Huawei	Sungrow commissioning included	Online commissioning by SOLSOL	Mandatory paid SolaX commissioning	Not required / optional via SOLSOL	Not required / optional via SOLSOL	Not required / optional via SOLSOL	–	Not required / optional via KSTAR technician	Solinteg technician
Key advantages	• Easy integration with SolarEdge grid-connected PV systems • Integrated EMS included (SolarEdge One Controller) • Huge expansion potential for existing SolarEdge installations – investors love this technology	• Compact design • Unique cooling system • Multi-level active safety features • Asymmetric operation • UPS backup capability (MGC5000) • Active battery module calibration optimization	• Compact design • Liquid cooling • High RTE efficiency • Global leader in battery solutions • Excellent price-to-quality ratio	• Ensures uninterrupted operation (PIXII inverters / LV batteries) • European manufacturing and warranties • Online commissioning included • Local manufacturer support (Slovakia / Germany / Norway) • High modularity • Scalable to higher MWh capacities	• Compact design • Liquid cooling • Local technical support and commissioning • Backup integration capability • Easy integration with SolaX grid-connected PV systems • SOLAX EMS for SolaX inverter control	• New 125 kW hybrid inverter • Asymmetrical operation with backup capability • 10 MPPT inputs • All-in-one solution • Integrated aerosol fire suppression system	• Compatible with an asymmetric hybrid inverter • 10 MPPTs • Parallel operation with asymmetry (up to 3 inverters) • HW validated mathematical models and RfG compliance simulation capability • Simple rack-based battery solution for indoor installations * Outdoor cabinet option available	• Cost-effective hybrid inverter (30–50 kW range) • Integrated backup output and diesel generator (DG) input • Up to 3 battery racks (60 kWh each) per inverter * Outdoor cabinet option available	• 50 kW hybrid inverter • Master-slave configuration support • Proven technology • Integrated backup and DG input	• High-quality hardware (EVE battery cells) • 125 kW hybrid inverter • Integrated backup module • Parallel connection of backup outputs • Also available in 221 kWh and 241 kWh versions	• New 125 kW hybrid inverter • Integrated backup functionality • True asymmetrical operation • Integrated EMS (Energy Management System)

If a 10-year warranty is not listed, the standard warranty is 5 years. An extended warranty may be purchased separately, subject to the manufacturer’s terms and conditions.