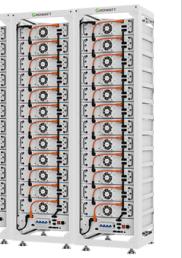


Manufacturer	solaredge	HUAWEI	SUNGROW	PIXII	GROWATT	GROWATT	GROWATT	GROWATT	Deye	SOLAPOWER	KSTAR	KSTAR	SOLINTEG
Model	CSS-OD	LUNA2000-215	PowerStack	PowerShaper XL-P	WIT-HU + ACE261	WIT-HU + AXE	WIT-HU + APX	WIT-XHU + AXE	SUN-50K + BOS-G Pro	TRENE - P125B261L-E	KAC50DP2 + BC107DE2	KAC125DH + BC233DE2	PTH-50K-S 112.5kWh
													
System configuration	2x CSS OD	LUNA200-215	PowerStack	PowerShaper XL-P	1x WIT-HU + ACE261	1x WIT-HU + AXE Towers 200	1x WIT-HU + 2x APX Towers 200	2x WIT-XHU + AXE 200	2x SUN-50K + BOS-G Pro 204	1x TRENE 125 (liquid-cooled)	2x KAC50DP2 + 2x BC107DE2	1x KAC125DH + BC233DE2	2x PTH-50K-S 112.5
BESS topology	AC-coupled	AC-coupled	AC-coupled	AC-coupled	Hybrid inverter	Hybrid inverter	Hybrid inverter	Hybrid inverter	Hybrid inverter	Hybrid inverter	Hybrid inverter	AC-coupled	Hybrid inverter
Rated power	100 kW	108 kW	110 kW	49,5 kW - 112 kW	100 kW	100 kW	100 kW	100 kW	100 kW	125 kW	100 kW	125 kW	100 kW
Installed capacity	204.8 kWh	215.0 kWh	229.0 kWh	225.4 kWh	261.2 kWh	200.0 kWh	200.0 kWh	204.8 kWh	261.0 kWh	214.0 kWh	233.0 kWh	209.7 kWh	225.0 kWh
Max. usable capacity	194.6 kWh	215.0 kWh	206.1 kWh	202.9 kWh	235.1 kWh	180.0 kWh	180.0 kWh	184.3 kWh	234.9 kWh	192.6 kWh	209.7 kWh	202.5 kWh	
Max. system configuration	10 x [0.5 MW / 1.02 MWh]	20 x [2 MW / 4.3 MWh]	10 x [1.1 MW / 2.29 MWh]	Unlimited	5 x [0.5 MW / 1.3 MWh]	3 x [300 kW / 600 kWh]	3 x [300 kW / 600 kWh]	10x [0.5MW/1.64MWh]	16 x [2 MW / 4.17 MWh]	20 x [1 MW / 2.48 MWh]	20 x [2.5 MW / 4.66 MWh]	10 x [0.5 MW / 1.12 MWh]	
Product warranty	10 years	2 + 8 years	5 + 5 years	10 years	5 + 5 years	10 years	10 years	10 years	10 years	10 years	10 years	5 + 5 years	5 + 5 years
Battery warranty	10 years / 6,000 cycles @ 95% DoD	10 years / 7,300 cycles @ 100% DoD	10 years / 6,500 cycles @ 90% DoD	10 years / 7,600 cycles @ 90% DoD	10 years @ 90% DoD	10 years @ 90% DoD	10 years @ 90% DoD	10 years / 6,000 cycles @ 90% DoD	10 years @ 90% DoD	10 years / 8,000 cycles @ 90% DoD	10 years / 8,000 cycles @ 90% DoD	10 years / 8,000 cycles @ 90% DoD	10 years / 8,000 cycles @ 90% DoD
Cooling method	Air-cooled (air conditioning)	Hybrid cooling – air / liquid	Liquid-cooled	Air-cooled (air conditioning)	Liquid-cooled	Air-cooled	Air-cooled	Air-cooled	Liquid-cooled	Air-cooled (air conditioning)	Air-cooled (air conditioning)	Air-cooled (air conditioning)	Air-cooled (air conditioning)
Dimensions (WxDxH) (cm)	2 x [110 x 110 x 238]	115 x 180 x 210	115 x 161 x 245	120 x 132 x 232	100 x 130 x 205	4 x [57 x 66 x 196]	2 x [92 x 51 x 198]	4 x [57 x 66 x 196]	4x [53x60x229]	135 x 135 x 235	2 x [110 x 110 x 238]	2 x [130 x 110 x 238]	135 x 114 x 226
Base system weight	3,016 kg	2,800 kg	3,100 kg	2,440 kg	2,453 kg	2,093 kg	2,227 kg	2,162 kg	2,536 kg	2,800 kg	3,150 kg	2,600 kg	3,174 kg
Grid compliance models (SOLSOL)	–	In preparation	In preparation	Available at SOLSOL	Available at SOLSOL	Available at SOLSOL	Available at SOLSOL	Mathematical models available only for the WIT 50–100K-HU version	–	Available at SOLSOL	–	–	–
Installation type	Indoor / outdoor	Outdoor	Outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor*	Indoor	Indoor / outdoor*	Indoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor
Backup capability	SolarEdge CBI – STS for 2 cabinets	Up to 20x LUNA 215 without an isolation transformer	Sungrow isolation transformer	Off-grid box by SOLSOL	Integrated backup output (100 kW)	Integrated backup output (100 kW)	Integrated backup output (100 kW)	Integrated backup output (2 x 50 kW) + diesel generator input	Integrated backup output (2 x 50 kW) + diesel generator input	SolaX AC switching cabinet (up to 6x TRENE units)	Integrated backup output (2 x 50 kW) / KSTAR STS 100 kW	Requires STS250D (connection of up to 2 cabinets)	Solinteg off-grid box (connection of up to 4 cabinets)
Commissioning	SolarEdge technician	Mandatory paid Huawei commissioning	Paid commissioning	Online commissioning by SOLSOL	Not required / optional via SOLSOL	Not required / optional via SOLSOL	Not required / optional via SOLSOL	Not required / optional via SOLSOL	–	Mandatory paid SolaX commissioning	KSTAR technician	KSTAR technician	Solinteg technician
Key advantages	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Compact design Unique cooling system Multi-level active safety features Asymmetric operation UPS backup capability Active battery module calibration optimization 	<ul style="list-style-type: none"> Compact design Liquid cooling High RTE efficiency Global leader in battery solutions Excellent price-to-quality ratio 	<ul style="list-style-type: none"> built-in redundancy (PIXII inverters / LV batteries) European manufacturing and warranties Online commissioning included Local manufacturer support (Slovakia / Germany / Norway) High modularity Scalable to higher MWh capacities 	<ul style="list-style-type: none"> Battery storage compatible with 3-phase asymmetric power output 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 50 kW hybrid inverter Master-slave configuration support Proven technology Integrated backup and DG input 	<ul style="list-style-type: none"> Compact design Master-slave configuration support Proven technology Integrated backup and DG input 	<ul style="list-style-type: none"> 50 kW hybrid inverter Master-slave configuration support Proven technology Integrated backup and DG input 	<ul style="list-style-type: none"> High-quality hardware (CATL cells) Backup integration and backup output interconnection capability 	<ul style="list-style-type: none"> High-quality hardware (CATL cells) Backup integration and backup output interconnection capability