

Residential Energy Storage



Residential Energy Storage Systems. Empowering Homes with Renewable Energy.



Our residential energy storage solutions revolutionize access to renewable energy. By integrating with solar or wind power setups, homeowners gain autonomy over energy usage and reduce dependency on conventional grid power. Capturing surplus renewable energy during peak production, our systems ensure a consistent electricity supply even when renewable sources are inactive.

This stored energy can also be sold back to the grid, offering additional income. With intelligent recharging during off-peak hours, homeowners save on energy costs while supporting grid efficiency. Embracing our solutions enables energy independence, decreases grid reliance, and fosters a sustainable energy future.

- | Applications | | |
|---|--------------------------------|-----------------------------------|
| • One Package with Inverter and Battery | • Long Lifetime | • Easy Installation and Operation |
| • Advanced Energy Management | • Reliable and Safe Technology | • Expandable Capacity |
| • On-Grid and Off-Grid Applications | • Elegant Design | • Connectivity |
| • Compatible with Third-Party Systems | • Online Monitoring | |

Residential 1-Phase Energy Storage Systems



Inverter Properties	PRESS-900	PRESS-910	PRESS-915	PRESS-920
Max. Efficiency	97.5%	97.5% (PV-AC), 94.0% (BAT-AC)	97.5% (PV-AC)	97.5% (PV-AC)
[PV] Max. Power	8000W	8000W	8000W	8000W
[PV] Max. Voltage	550V	550V	550V	550V
[PV] MPPT Voltage Range	200V-480V	200V-480V	200V-480V	200V-480V
[PV] Max. Input Current	15A	15A	15A	15A
[PV] # of MPPT Trackers	2	2	2	2
[BATT] Voltage Range	40V-60V	40V-60V	40V-60V	40V-60V
[BATT] Max. Charge/Discharge Power	5000W	5000W	5000W	5000W
[BATT] Max. Charge/Discharge Current	100A	100A	100A	100A
[AC] Nominal Output Power	5000W	5000W	5000W	5000W
[AC] Nominal Voltage	220V/230V (Single Phase)	220V/230V (Single Phase)	220V/230V (Single Phase)	220V/230V (Single Phase)
[AC] Voltage Range	150V-300V (Adjustable)	150V-300V (Adjustable)	150V-300V (Adjustable)	150V-300V (Adjustable)
[AC] Max. Output Current	25A	25A	25A	25A
[AC] Frequency Range	45Hz-49Hz	45Hz-49Hz	45Hz-49Hz	45Hz-49Hz
[AC] THDi	<3%	<3%	<3%	<3%
Interface / Communication	Screen, CAN	Screen, CAN	Screen, CAN	Screen, CAN
Warranty	10 years	10 years	10 years	10 years
Parallel Connection	No	No	No	No
Battery Properties				
Battery Type	LiFePO ₄ - Prismatic			
Nominal Voltage	51.2V			
Operating Voltage Range	44V - 56.8V			
Nominal Capacity	100Ah	200Ah	300Ah	400Ah
Nominal Energy Capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Standard Charge/Discharge Current	50A / 50A	100A / 100A	150A / 150A	200A / 200A
Max. Continuous Output Current	100A	200A	300A	400A
Cycle Life (*)	≥8000 cycles			
Charging Temperature (**)	0-50°C			
Discharging Temperature (***)	-10-55°C			
Storage Temperature	-20-55°C			
Mechanical Properties				
Protection Level	IP20			
Dimension (WxDxH) (with antenna)	648x284x1282 mm	648x284x1732 mm	648x284x2182 mm	1296x284x1732 mm
Weight	90 ± 5 kg	140 ± 5 kg	190 ± 5 kg	240 ± 5 kg

(*) Test Conditions: 25°C, 70% SOH
 (***) Performance may vary in different conditions

Stackable G Series High Voltage LFP Batteries



Basic Properties	PBG-153100	PBG-204100	PBG-255100	PBG-307100	PBG-358100	PBG-409100
Cell Type	LiFePO ₄ - Prismatic					
Nominal Voltage	153.6V	204.8V	256V	307.2V	358.4V	409.6V
Operating Voltage Range	134V-170V	179V - 227V	224V - 284V	268V - 340V	313V-397V	358V-454V
Nominal Capacity (*)	100Ah					
Nominal Energy Capacity	15.3 kWh	20.4 kWh	25.8 kWh	30.7 kWh	35.8 kWh	40.9 kWh
Max. Charge Voltage	172V	230V	288V	345V	403V	460V
Max. Cont. Charge/Discharge Current	0.5C / 0.5C					
Cycle Life (*)	≥8000 cycles					
Nominal Operating Temperature	25°C					
Charging Temperature (**)	0-50°C					
Discharging Temperature (***)	-10-55°C					
Storage Temperature	-20-55°C					
Residual Capacity Loss	Per month ± 3% (25°C ± 2C)					
Warranty	10 years					
Parallel Connection	No					
Functional Properties						
Communication	CAN, RS485					
Scalability	Serial Pack Addition					
Cooling	Natural					
BMS Protections	UV, OV, OC, UT, OT, SC					
LED Indicators	Alarm, Run, SOC					
Circuit Breaker	Yes (in the Master BMS unit)					
Compatible Inverter (***)	Days, Victron, Senergy, Growatt, Solplanet, Hopewind					
Mechanical Properties						
Protection Level	IP65					
Humidity	0-85%RH(non-condensing)					
Altitude	<3000 m					
Dimension (WxDxH)	683x455x655 mm	683x455x805 mm	683x455x955 mm	683x455x1105 mm	683x455x1255 mm	683x455x1405 mm
Weight	181x 5 kg	233 ± 5.5 kg	285 ± 6 kg	337 ± 6.5 kg	389 ± 7 kg	441 ± 7.5 kg

(*) Test Conditions: 25°C, 70% SOH
 (***) Performance may vary in different conditions
 (***) Contact us for other inverter brands

Residential 3-Phase G Series Energy Storage Systems



Inverter Properties	PRESS-G1015	PRESS-G1020	PRESS-G1025	PRESS-G1030	PRESS-G1035	PRESS-G1040
Max. Efficiency	97.5% (PV-AC), 98.0% (BAT-AC)					
[PV] Max. Power	15000W					
[PV] Max. Voltage	1000V					
[PV] MPPT Voltage Range	160V-950V					
[PV] Max. Input Current	20A/30A					
[PV] # of MPPT Trackers	2 (1+2 strings)					
[BATT] Voltage Range	120V-600V					
[BATT] Max. Charge/Discharge Power	15000W / 11300W					
[BATT] Max. Charge/Discharge Current	50A / 50A					
[AC] Nominal Output Power	10000W					
[AC] Nominal Voltage	380V/400V/415, 3L+N+PE					
[AC] Voltage Range	260V-520V (Adjustable)					
[AC] Max. Output Current	3 * 16.3A					
[AC] Frequency Range	45Hz-50Hz / 50Hz-60Hz (Adjustable)					
[AC] THDi	<5% (Rated Power)					
Interface / Communication	Screen, CAN					
Warranty	10 years					
Parallel Connection	No					
Battery Properties						
Battery Type	LiFePO ₄ - Prismatic					
Nominal Voltage	153.6V	204.8V	256V	307.2V	358.4V	409.6V
Operating Voltage Range	132V - 170V	179V - 227V	220V - 284V	264V - 340V	308V-397V	352V-454V
Nominal Capacity	100Ah					
Nominal Energy Capacity	15.36kWh	20.48kWh	25.8kWh	30.72kWh	35.84kWh	40.96kWh
Standard Charge/Discharge Current	50A					
Max. Continuous Output Current	50A					
Cycle Life (*)	≥8000 cycles					
Charging Temperature (**)	0-50°C					
Discharging Temperature (***)	-10-55°C					
Storage Temperature	-20-55°C					
Parallel Connection	No					
Mechanical Properties						
Protection Level	IP65					
Dimension (WxDxH) (with antenna)	683x455x1320 mm	683x455x1480 mm	683x455x1630 mm	683x455x1780 mm	683x455x1930 mm	683x455x2080 mm
Weight	244 ± 5 kg	296 ± 5.5 kg	348 ± 6 kg	400 ± 6.5 kg	452 ± 7 kg	504 ± 7.5 kg

(*) Test Conditions: 25°C, 70% SOH
 (***) Performance may vary in different conditions

Residential 3-Phase A and D Series Energy Storage Systems



Inverter Properties	PRESS-A1012	PRESS-D1210
Max. Efficiency	97.5% (PV-AC), 98.0% (BAT-AC)	97.5% (PV-AC)
[PV] Max. Power	10000W	16000W
[PV] Max. Voltage	1000V	800V
[PV] MPPT Voltage Range	160V-950V	200V-850V
[PV] Max. Input Current	20A/30A	26A/30A
[PV] # of MPPT Trackers	2 (1+2 strings)	2 (1+1 strings)
[BATT] Voltage Range	120V-600V	40V-60V
[BATT] Max. Charge/Discharge Power	15000W / 11300W	10000W / 10000W
[BATT] Max. Charge/Discharge Current	50A / 50A	200A / 200A
[AC] Nominal Output Power	10000W	10000W
[AC] Nominal Voltage	380V/400V/415, 3L+N+PE	380V/400V, 3L+N+PE
[AC] Voltage Range	260V-520V (Adjustable)	-
[AC] Max. Output Current	3 * 16.3A	3 * 16.3A
[AC] Frequency Range	45Hz-50Hz / 50Hz-60Hz (Adjustable)	50Hz/60Hz
[AC] THDi	<5% (Rated Power)	<3% (Rated Power)
Interface / Communication	Screen, WiFi/LAN	Screen, CAN
Warranty	10 years	10 years
Parallel / Serial Connection	No	No
Battery Properties		
Battery Type	LiFePO ₄ - Prismatic	
Nominal Voltage	128V	51.2V
Operating Voltage Range	112V-140V	44V - 56.8V
Nominal Capacity	100Ah	100Ah
Nominal Energy Capacity	12.8kWh	10.24kWh
Standard Charge/Discharge Current	50A	100A
Max. Continuous Output Current	50A	200A
Cycle Life (*)	≥8000 cycles	
Charging Temperature (**)	0-50°C	
Discharging Temperature (***)	-10-55°C	
Storage Temperature	-20-55°C	
Parallel Connection	No	
Mechanical Properties		
Protection Level	IP65 (Battery / Internal Inverter)	
Cooling	Natural Convection	
Dimension (WxDxH) (with antenna)	648x279x1925 mm	648x200x1960 mm (only battery)
Weight	192 ± 2 kg	135 ± 5 kg

(*) Test Conditions: 25°C, 70% SOH
 (***) Performance may vary in different conditions

Stackable A Series High Voltage LFP Batteries



Basic Properties	PBA-128100	PBA-192100	PBA-256100
Cell Type	LiFePO ₄ - Prismatic		
Nominal Voltage	128V	192V	256V
Operating Voltage Range	112V-140V	160V - 217V	224V - 282V
Nominal Capacity (*)	100Ah		
Nominal Energy Capacity	12.8kWh	19.2kWh	25.6kWh
Max. Charge Voltage	144V	216V	288V
Standard Charge/Discharge Current	50A / 50A		
Max. Cont. Charge/Discharge Current	50A / 50A		
Cycle Life (*)	≥8000 cycles		
Nominal Operating Temperature	25°C		
Charging Temperature (**)	0-50°C		
Discharging Temperature (***)	-10-55°C		
Storage Temperature	-20-55°C		
Residual Capacity Loss	Per month ± 3% (25°C ± 2C)		
Warranty	10 years		
Parallel Connection	No		
Functional Properties			
Communication	CAN, RS485		
Scalability	Serial Pack Addition		
Cooling	Natural		
BMS Protections	UV, OV, OC, UT, OT, SC		
LED Indicators	Alarm, Run, SOC		
Circuit Breaker	Yes (in the Master BMS unit)		
Compatible Inverter (***)	Days, Victron, Senergy, Growatt, Solplanet, Hopewind		
Mechanical Properties			
Protection Level	IP65		
Humidity	0-85%RH(non-condensing)		
Altitude	<3000 m		
Dimension (WxDxH) (without connector and handle)	648x200x1215 mm	648x200x1665 mm	648x200x2115 mm
Weight	137 ± 5 kg	197 ± 5.5 kg	257 ± 6 kg

(*) Test Conditions: 25°C, 70% SOH
 (***) Performance may vary in different conditions
 (***) Contact us for other inverter brands