

Battery

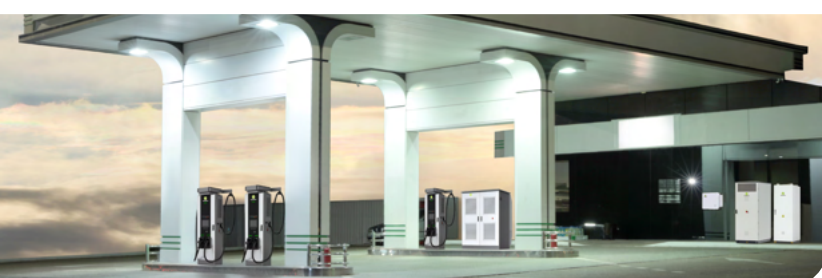
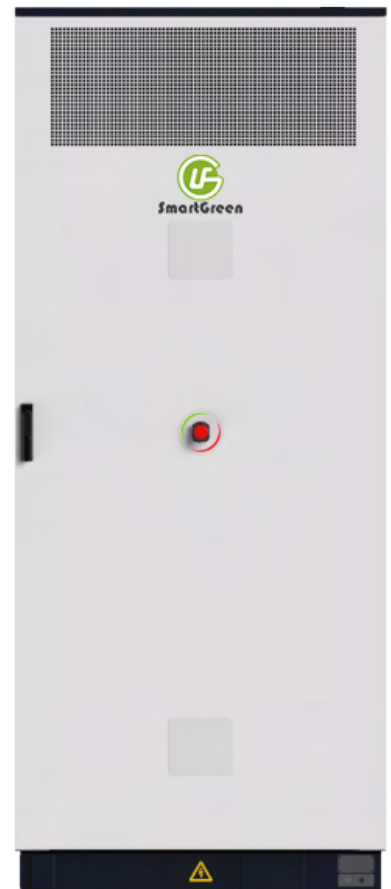
Commercial ESS - EU/CA

The series products provide a large-capacity of power for commercial or industrial needs.

There are many advantages of function to set up a energy storage. One is to provide backup power to avoid losses caused by power outages.

Another is to enlarge maximum power capacities in a short time to cover peak loading without over contract capacity.

The most popular one is to balance power demand by storing during light power and low-price period and releasing power during heavy power and high-price period to keep in contract capacity range or save electricity bills.



Product HIGHLIGHT



Safety Protection: Features 3S active intervention, cabinet-linked ventilation, explosion-proof pressure relief, and cloud-based early warning for multi-layer protection, meeting IP55 dust and water resistance standards.



Smart Management: Real-time optimization via the EMS system combined with cloud big-data analytics enables coordinated local-cloud intelligent management.



Stable Adaptability: Withstands 100% three-phase unbalanced loads in off-grid parallel mode; liquid cooling maintains full-load output even at 55°C, with operating noise as low as 60 dB.

Commercial ESS - Battery

DC Side	
Cell type	LFP 3.2 V / 314 Ah
Pack configuration	1P52S / 52.25 kWh
System configuration	1P260S
Battery voltage range	728 - 936 VDC
Nominal battery energy	261 kWh
Temperature detection	Battery cell+Module+Positive and Negative terminals
AC Side (on grid)	
Rated output power	125 kW (@50°C)
Maximum output power	137.5 kW
Rated grid voltage range	340 - 440 VAC
Rated grid frequency	50 / 60 Hz , ±5 Hz
THDi (rated power)	< 3%
Grid type	3P3W / 3P4W
AC Side (off-grid)	
Rated output power	125 kW (@50°C)
Rated output voltage range	340 - 440 VAC
Rated grid frequency	50 / 60 Hz
THDi (rated power)	< 3% (Linear load)
DC injection	< 1% Un (Balanced linear load)
Efficiency	
Rated round-trip efficiency	≥ 88.4%
Maximum round-trip efficiency	90.3%
Overload	
Overload capacity	Operate for a long time at 1.1 times (137.5kW@45°C), Operate for no less than 1 minutes at 1.2 times the rated load
General Infomation	
Dimensions (W × H × D)	1030 × 2450 × 1400mm
Weight	< 2700kg
Operating temperature	-30 to +55°C (> 50°C, derating operation)
Operating humidity	0 - 100%RH (non-condensing)
Altitude	≤ 2000m (Optional ≤ 4000m)
Protection	IP55
Cooling	Fully liquid cooling (PCS + Battery)
Noise	70dB (Optional 60dB)
Rated Charge/Discharge Rate	≤ 0.5P
Fire Suppression System	Perfluorohexanone + PACK-level fire protection + Water fire protection + Interlocked exhaust ventilation+Pressure relief (Optional) + Aerosol (Optional)
AC Inlet Method	Front bottom inlet
Interface / Communication	
Communication Interface	RS485 、 Ethernet 、 DIO
Communication Protocol	MODBUS-RTU 、 MODBUS-TCP 、 DL/T645
Cloud Service	Default S-Miles APP (Support third-party cloud platforms)

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