



**AUTON  
ENERGY**

Integrating Energy Independence



# PowerLake I2

100 kW / 114.2 kWh

Sodium-ion Commercial and Industrial Energy Storage System



## Ultra-Efficient Integrated Design

All-in-one sodium-ion system, integrating PV, storage, PCS, and EV charger.  
Reduces installation time by 30% and operational costs by 15%.



## Multi-Layered Safety & Durability

Ultra safe, 6,000-cycle lifespan, and stable operation in extreme temperatures (-30°C to +55°C).



## Really Green & Future-Ready

SIBs mainly use sodium, an abundant and non-toxic element.



## Seamless 20ms Grid Transition

Instant switch between grid/off-grid modes (<20ms), ensuring uninterrupted power for hospitals, factories, and critical infrastructure.

## C&I Energy Storage System I2 (PLI-100/114-02), Sodium-ion

Input (Battery)	Battery type	Sodium-ion battery 170Ah
	PACK module capacity and quantity	8.16 kWh / 14 pcs
	Total battery capacity	114.2 kWh
	Battery voltage range	336 V - 784 V
	Cycle life (25±2°C, 0.5C/0.5C, 80%DoD)	8,000
	Rated continuous charge/discharge current	0.5 C / 0.5 C
Input (PV)	Max. DC power	100 kW
	Max. DC input current	160 A
	Voltage range	650 V ~ 800 V
	Switch	250 A / 1,000 Vdc / 2p
AC Side Parameters (On-Grid)	Nominal apparent power	100 kW
	Max. power	110 kW
	System voltage standard	3W+N+PE
	Grid voltage range	360 Vac ~ 440 Vac
	Grid voltage frequency	45~55 Hz / 55~65 Hz
	Power factor	-1 ~ 1
AC Side Parameters (Off-Grid)	Nominal output power	100 kW
	Max. single-phase output power	33 kW
	Rated output voltage	400 V
	Rated output voltage frequency	50 Hz / 60 Hz
	Overload capacity	110% (10 minutes)
Off-Grid Switch Configuration (Optional)	Bypass maintenance switch	250 A / 400 VAC
	Load switch	250 A / 400 VAC
	Grid switch	400 A / 400 VAC
	STS switch	305 A / 100 kW
	Switching time	<20 ms
Monitoring & Control	Human-machine interaction	Display
	Networking	4G / WIFI / Ethernet
General Parameters	Working temperature	-30°C ~ +55°C
	Operating humidity	0% RH ~ 95% RH
	Max. operating altitude	4,000 m (13,123 ft.) Derating above 2,000 m
	Cooling mode	Intelligent air cooling
	Weight	2,200 kg
	Dimension (D x W x H)	1,600 x 1,050 x 2,050 mm
	IP rating of enclosure	IP54
	Installation method	Floor stand