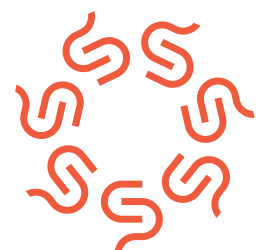




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Commercial & Industrial ESS Solutions

Air Cooling / Liquid Cooling



Poweroad Renewable Energy Co., Ltd.

INTRODUCTION

About POWEROAD

Founded in 2001, Poweroad Renewable Energy Co., Ltd. ("POWEROAD") is a high-tech enterprise focusing on the researching & development of lithium batteries and energy storage systems.

Catering to Commercial & Industrial ESS markets, POWEROAD has delivered more than 100 C&I energy storage projects and services globally by applying a complete pre-sales, sales and after-sales service system, with a commitment to make green energy accessible, supplying and connecting people and places all over the globe.

Utilizing advancements in BMS, EMS, and PCS technology, we've delivered our solutions in over 70 countries, amassing 800 MWh deliveries.

Backed by a comprehensive service model, POWEROAD's innovative products energize projects worldwide, including Asia, Oceania, Europe, Africa and South America. We offer a scalable energy storage footprint that can help even the most remote communities, striving to make more contributions towards a greener earth.

 **4GWh+**
Annual Capacity

 **400+**
Employees

 **23,500m²**
Manufacturing Base

 **23 Years**
Experience in Battery Industry

 **150 R&D Staff**
in 5 Centers Nationwide

 **In-house 3-tier BMS**
Own-developed BMS for C&I ESS

 **800+MWh**
Global Projects Completed

Partners

CATL

**KEHUA
TECH**

Sinexcel

DELTA

SCENARIOS



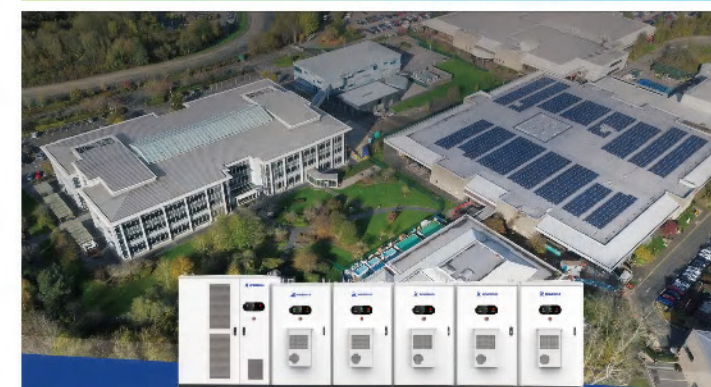
Solar Self-consumption



PV+ESS+EV Charging



Off-grid/Microgrid

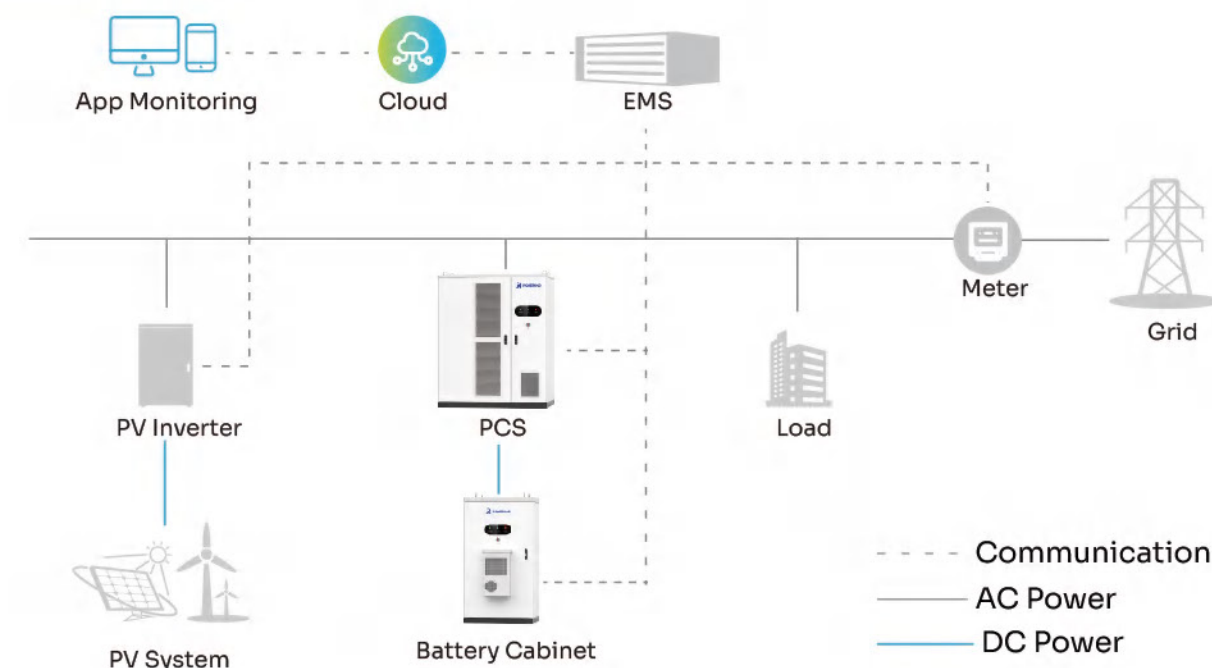


Demand Charge Reduction / Peak-shaving



Frequency Response Services

Topology



FLEX 215 Air Cooling Outdoor Cabinet ESS

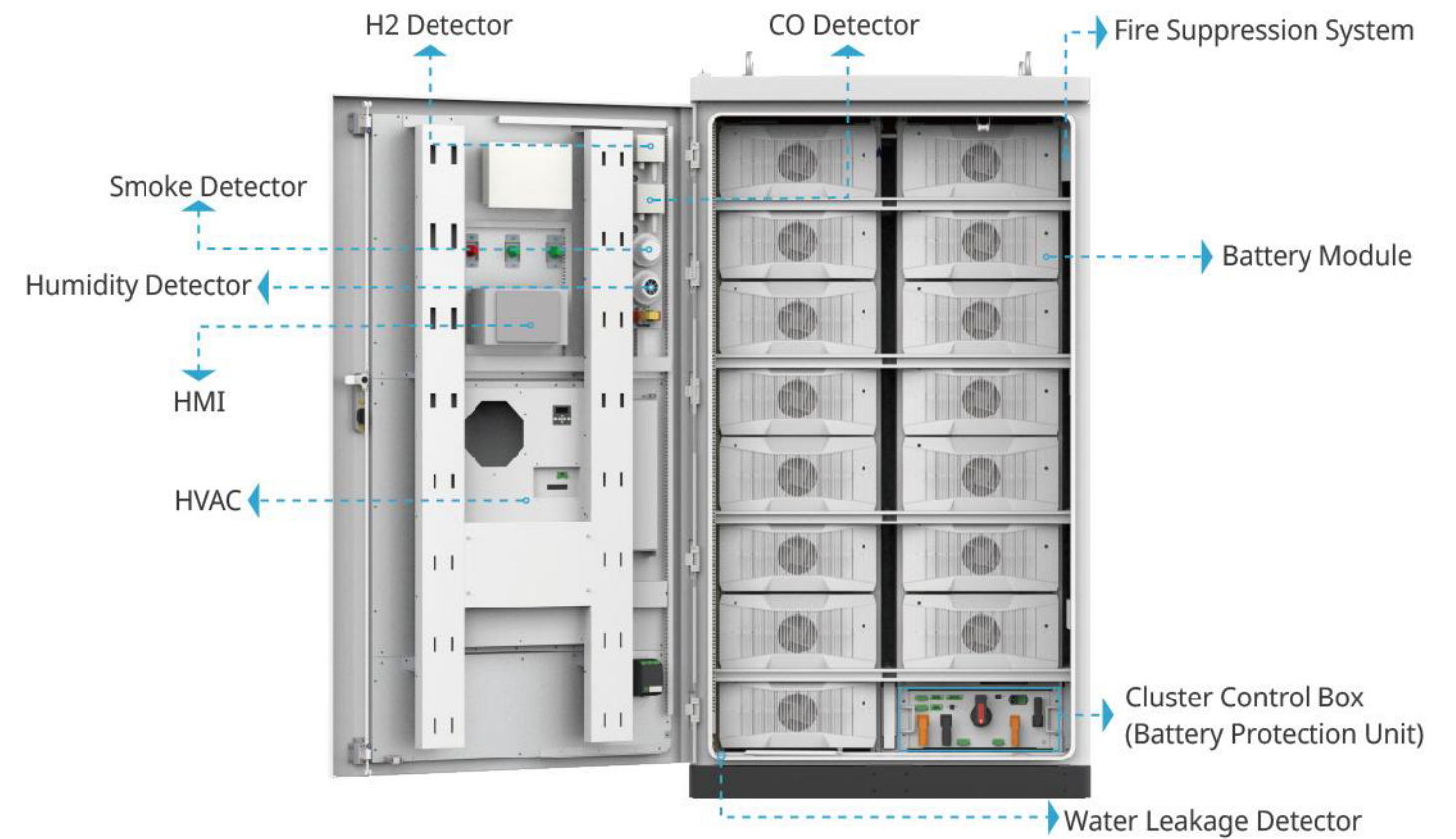


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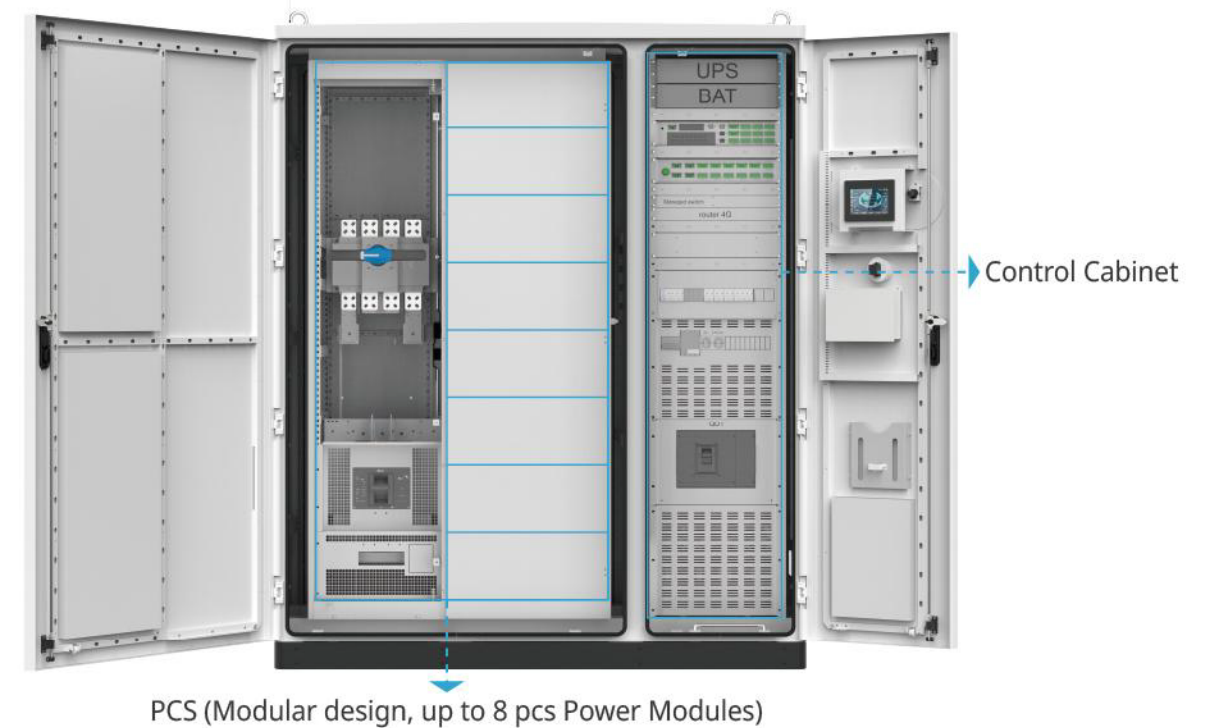
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FLEX 215 LAYOUT

Battery Cabinets



PCS & Control Cabinet



FLEX 215 CONFIGURATION

PCS & CONTROL CABINET

- Internal PCS module expansion
- No new hardware required
- Work with maximum 10 battery cabinets

MODULAR BATTERY CABINET

- Back-to-back layout
- Easy deployment
- Fast installation and debugging
- Low cost shipping

C&I ESS Overseas Market Configuration Suggestion										
BATTERY	Number of 215kWh battery cabinet	Battery capacity (energy)								
	10	2,150 kWh								
	9	1,935 kWh								
	8	1,720 kWh								
	7	1,505 kWh								
	6	1,290 kWh								
	5	1,075 kWh								
	4	860 kWh								
	3	645 kWh								
	2	430 kWh								
	1	215 kWh								
PCS	PCS (Modular)	PCS power	62.5 kW	125 kW	187.5 kW	250 kW	312.5 kW	375 kW	437.5 kW	500 kW
		Number of PCS module	1	2	3	4	5	6	7	8

Please contact our technical team for 10 battery racks above configurations.

FLEX 215 PARAMETERS

	Items	Parameters
AC Parameters	Rated Power	Max. 500 kW (62.5 kW x 8)
	Maximum Power	550 kW
	Grid Type	3W + PE
	Rated Grid Voltage	380 V / 400 V
	THDi	≤ 3%
	Grid Frequency	50 / 60 Hz
	EMC & Safety Standards	IEC/EN 62477-1, EN/IEC 61000-6, IEC/BS EN 62109-1/-2
DC Parameters	Grid Connection Standards	IEC 61727, IEC 62116, EN 50549-1, G99, NRS 097-2-1, AS/NZS 4777.2, UNE 206007-1, UNE 217002, UE 2016/631
	Rated Voltage	768 V
	Voltage Range	648 V ~ 864 V
	Rated Capacity	280 Ah
	Rated Energy	215 kWh
Other Parameters	Charge/Discharge Rate	0.5 P
	Degree of Protection	IP 55
	Operation Temperature	-20 ~ 45 °C
	Storage Temperature	-30 ~ 55 °C
	Altitude	≤ 2000 m
	Relative Humidity	≤ 95% (No condensing)
	Cooling Method	Air cooling
	Fire Suppression System	Novec 1230 / Aerosol
	Communication	MODBUS TCP / IP
	Dimensions (W × D × H)	Battery cabinet: 1200 x 1000 x 2100 mm PCS & control cabinet: 1900 x 1125 x 2300 mm
	Weight	Battery cabinet: 2 t PCS & control cabinet: 1.1 t

