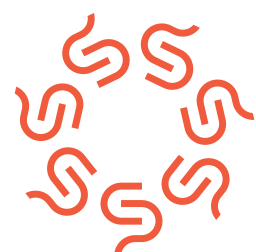




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EVERYONE DESERVES ENERGY

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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

 **23,500m<sup>2</sup>**  
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



# SCENARIOS



Solar Self-consumption



PV+ESS+EV Charging



Off-grid/Microgrid

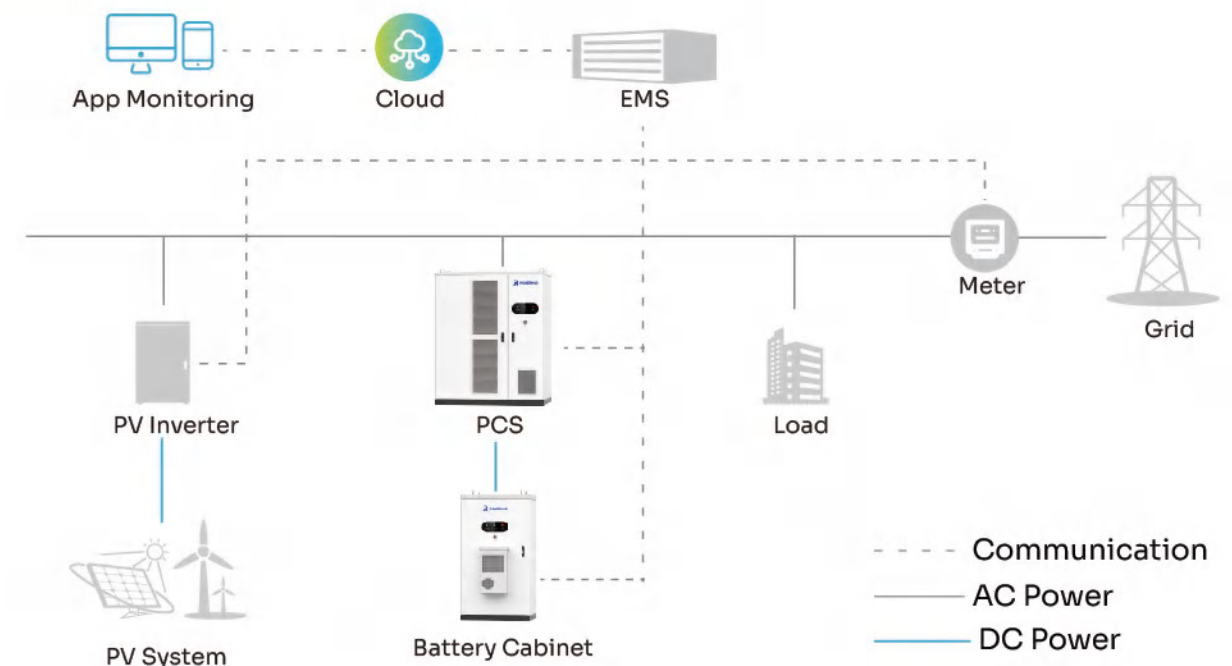


Demand Charge Reduction / Peak-shaving



Frequency Response Services

## Topology





# FLEX 372 Liquid Cooling Outdoor Cabinet ESS

TIER 1

## Tier-1 LFP Battery Cells

LFP cells with top-level safety

## In-House BMS

Own-developed BMS technology that optimizes the performance and lifespan of ESS

## Modular Design

Available for flexible scalable up to 10 batteries

## Space-Saving

1.75 m<sup>2</sup> minimum space required

## Easy Installation

Small volume integrated modules in whole-package transportations enable simple installation & relocation

## Plug-and-Play

Pre-engineered and pre-tested systems allows plug-and-play on site

## Cloud Monitoring

Allows real-time monitoring and remote upgrade

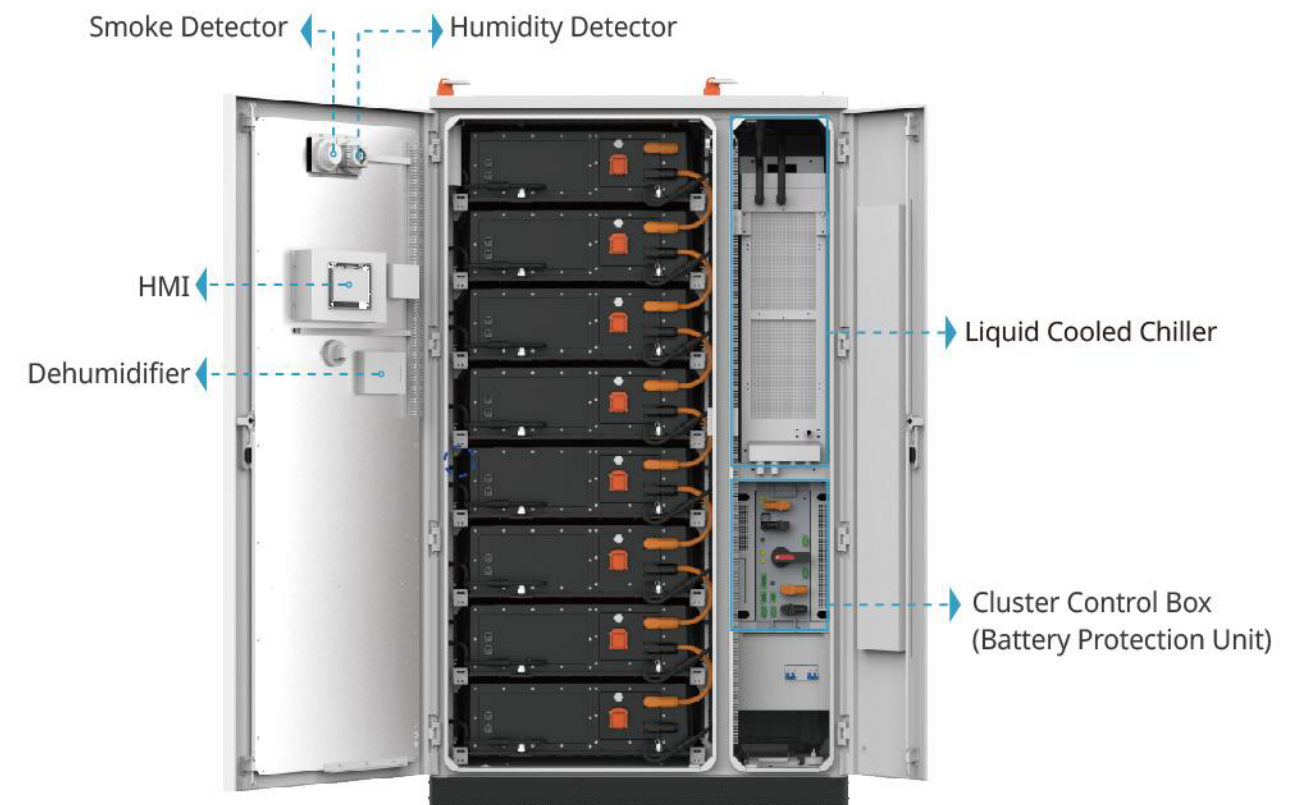
## Capable for Harsh Environment

IP67 battery module design for extreme environment such as islands or rainforests

## Intelligent Liquid Cooling System

Intelligent leak detection and liquid supplementation with great cost-effectiveness

# FLEX 372 LAYOUT



LCOE ↓

ROI ↑



## FLEX 372 CONFIGURATION



FLEX 372 Battery Configuration Suggestion (0.5P)

BATTERY	Number of Battery Cabinet	Battery Capacity (energy)											
		14	5.21 MWh										
	13	4.84 MWh											
	10	3.72 MWh											
	9	3.35 MWh											
	8	2.98 MWh											
	7	2.60 MWh											
	6	2.23 MWh											
	5	1.86 MWh											
	4	1.49 MWh											
	3	1.12 MWh											
	2	744 kWh											
	1	372 kWh											
PCS	PCS (Modular)	PCS Power	200 kW	400 kW	600 kW	800 kW	1 MW	1.2 MW	1.4 MW	1.6 MW	1.725 MW	2.5 MW	
		Number of PCS module	1	2	3	4	5	6	7	8	9	10	

## FLEX 372 PARAMETERS

	Items	FLEX-372
AC Parameters	Rated Power	186 kW
	Maximum Power	372 kW
	Grid Type	3W + PE
	Rated Grid Voltage	690 V
	THDi	≤ 3%
	Grid Frequency	50 / 60 Hz
	EMC & Safety Standards	IEC 61000, IEC 62477-1
	Grid Connection Standards	EN 50549-1
DC Parameters	Rated Voltage	1331.2 V
	Voltage Range	1164.8 V ~ 1497.6 V
	Rated Capacity	280 Ah
	Rated Energy	372 kWh
	Charge/Discharge Rate	0.5 P / 1 P
Other Parameters	Degree of Protection	IP 55
	Operation Temperature	-30 ~ 55 °C
	Storage Temperature	-30 ~ 60 °C
	Altitude	≤ 3000 m
	Relative Humidity	5%~95% (No condensing)
	Cooling Method	Liquid cooling
	Fire Suppression System	Aerosol
	Communication	RS485 / Ethernet
	Dimensions (W × D × H)	1350 x 1300 x 2260 mm
	Weight	3.5 t

