



Galaxy 233L-AIO-2H

100KW-233KWH liquid cooling IP 54
Battery Energy Storage Cabinet

FFD Power Tec Co., LTD

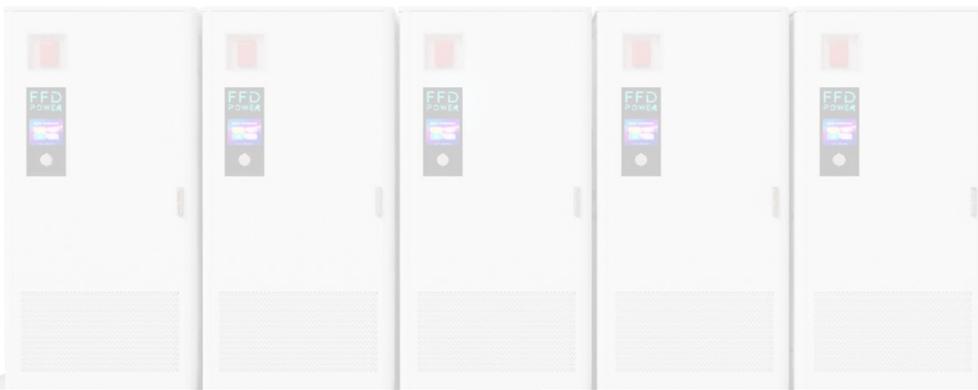
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Configuration

- Active balancing , longer span life
- Most reliable Cell , LFP280AH
- Liquid cooling , better performance
- PCS from ENJOY , much more reliable
- EMS integrated with AWS Germany server

Application

- Energy Arbitrage
- Solar self consumption
- Demand management
- Microgrid
- Grid dispatch
- Max Grid power



Battery Certificate

- UL 9540A
- IEC 62619
- UN 38.3
- EN/IEC 61000

PCS Certificate

- EN/IEC 62477
- EN/IEC 61000
- EN 50549
- VDE 4105
- EN 62920

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EMA

Energy management architecture

● Energy Management Architecture

Cremona , Italy
 2024/7/31
 23:52

Home

Detail

Set

History

<p>Current Grid Power</p> <div style="background-color: #1a3d4d; color: white; padding: 10px; font-size: 1.2em; font-weight: bold;">100 KW</div>	<p>Current Battery Power</p> <div style="background-color: #1a3d4d; color: white; padding: 10px; font-size: 1.2em; font-weight: bold;">100 KW</div>
<p>Current Consumption</p> <div style="background-color: #1a3d4d; color: white; padding: 10px; font-size: 1.2em; font-weight: bold;">100 KW</div>	<p>Battery SOC</p> <div style="background-color: #1a3d4d; color: white; padding: 10px; font-size: 1.2em; font-weight: bold;">50%</div>
<p>Total Battery Charged</p> <div style="background-color: #1a3d4d; color: white; padding: 10px; font-size: 1.2em; font-weight: bold;">1000 KWH</div> <div style="font-size: 0.8em; color: white; margin-top: 5px;"> Daily : 1000 KWH Weekly : 7000 KWH Monthly : 30000 KWH </div>	<p>Total Battery Discharged</p> <div style="background-color: #1a3d4d; color: white; padding: 10px; font-size: 1.2em; font-weight: bold;">1000 KWH</div> <div style="font-size: 0.8em; color: white; margin-top: 5px;"> Daily : 1000 KWH Weekly : 7000 KWH Monthly : 30000 KWH </div>

Galaxy 233 AIO-2H

5 Units in Parallel

- Rated Power : 500 KW
- Rated Capacity :1075 KWH

Max flexible

15 mins working mode setting

● Energy Management Architecture

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History

From	To	Mode	Power	Regulation	Second Regulation
00:00	00:15	Arbitrage	-50KW	0 Export	N/A
00:15	00:30	Arbitrage	-50KW	0 Export	N/A
10:00	12:15	Self Consumption	N/A	0 Export	Demand management
12:15	18:15	Self Consumption	N/A	0 Export	Demand management
18:15	18:30	Arbitrage	50KW	Max Grid Power	N/A
18:30	19:00	Arbitrage	50KW	Max Grid Power	N/A
19:00	19:15	Arbitrage	50KW	Max Grid Power	N/A
19:30	19:45	Arbitrage	50KW	Max Grid Power	N/A
20:00	20:15	Arbitrage	50KW	Max Grid Power	N/A
20:15	20:30	Arbitrage	50KW	Max Grid Power	N/A

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MODEL: Galaxy 233Liquid-AIO-2H

BESS

Cell type	LFP, 280Ah
System battery configuration	1P52S*5
Battery capacity (BOL) at DC side	233 kWh
System output voltage range	650V~949V
Dimensions of battery unit (W *H * D)	1150mm*2230mm*1335mm
Weight of battery unit*	≈2750kg
Degree of protection	IP54
Corrosion protection level	C 3
Relative humidity	0 ~ 85 % (non-condensing)
Operating temperature range	-20°C ~ 60°C (> 45°C derating)
Max. working altitude	3000 m
Cooling concept of battery Chamber	Smart liquid cooling
Fire safety equipment	Combustible gas detection and ventilation systems, aerosol fire suppression



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PCS	HPCS-105KW	
DC Side Parameters	Maximum Voltage	680~950
	Number of input routes	1
	Maximum charge and discharge current	170Adc
AC Grid Connection Parameters	Rated voltage	230/400, 3W+N+PE
	Maximum Input Active Power	105kw
	Maximum Continuous Input Current	167Aac
	Short circuit current (A)	341Aac
	Rated Input Frequency	50/60Hz
	Power Factor	0.99
		1 (lead) ~1 (lag)
	Current Distortion Rate	<3% (rated power)
	DC Component	0.5%
	Overload Capacity	110% long term
Maximum Discharge Efficiency	98.5%	
AC Off-Grid Parameters	Rated Output Voltage	230/400, 3P+N+PE
	Rated Output Frequency	50/60 Hz
	Maximum Continuous Output Current	167Aac
	Maximum Output Active Power	105kw
	Maximum Output Apparent Power	116kva
	AC Voltage Harmonics	<3% (linear load)
General Parameters	Range Of Working Temperature	-30°C~55°C (>45°C frequency reduction)
	Degree Of Protection	IP20
	Working Altitude	≤4000m (derate for use above 2000)
	Cooling Method	Intelligent air cooling
	Humidity	0%RH~95%, no condensation
	Dimensions (W*D*H)	544*717*270
	Weight	50kg
Communication	Battery BMS Communication Interface	CAN, RS485
Protection Characteristics	Have Functions	AC overcurrent protection, AC over-voltage protection, AC surge protection, AC short circuit protection, anti-islanding protection, DC reverse polarity protection, DC surge protection
	Protection Level	IP20

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