



Galaxy 233L-AIO-2H

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

FFD Power Tec Co., LTD

Building One ,Ping An Industrial Park, Shuixiang Avenue, Ma Chong
Town , Dongguan City ,China
www.ffdpower.com

Configuration

- Active balancing , longer span life
- Most reliable Cell , CATL 280AH
- Liquid cooling , better performance
- IP 66 PCS from Kehua , 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

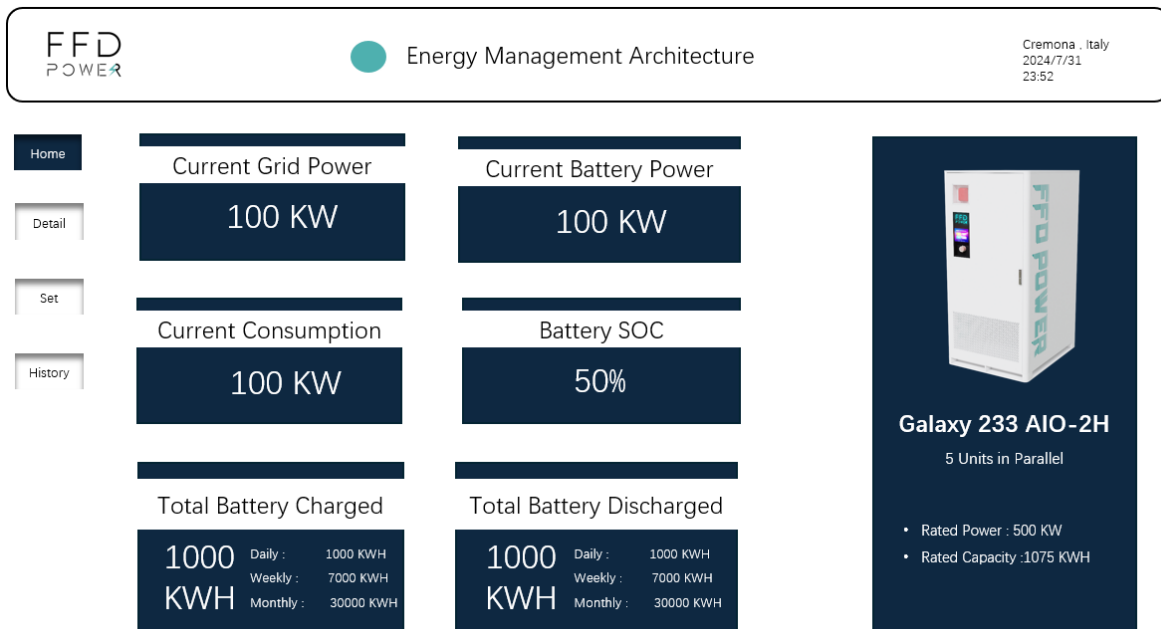
- EN/IEC 62477
- EN/IEC 61000
- EN 50549
- VDE 4105
- EN 62920

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EMA

Energy management architecture



Max flexible

15 mins working mode setting

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, CATL LFP280
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)	1250mm*2230mm*1330mm
Weight of battery unit*	≈2950kg
Degree of protection	IP67
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	
DC INPUT	
Max. DC voltage	1000Vdc
DC voltage range	600~1000Vdc
Max. DC current	187A
Soft Start	YES
AC OUTPUT	
Rated AC output power	100 kW@45°C
Max. AC output power	110kVA
Rated output voltage	400Vac 3P3W
Grid frequency range	50Hz/60Hz (settable)
Max. output current	158A
Power factor	>0.99 (at rated power)
Adjustable power factor	1 (leading)~1 (lagging)
THDi (on-grid)	< 3% (at rated power)
THDu (off-grid)	< 3% (linear load)
PCS efficiency	
Max. efficiency	98.8%
General data	
Topology	Non-isolated
IP rating	IP 66
Operation temperature	-35°C~60°C
Relative humidity	0~100%(No-condensing)
Cooling type	Intelligent air cooling
Dimensions (W*H*D)	600*295*900mm
Weight	95KG
Altitude	4000m (> 2000m derating)

★ Specification indexes may be subject to changes without further notice.

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