

ALP LV-US Modular Battery

- Max. 220A continuous charge/discharge current
- Flexible capacity options, 5kWh to 320kWh
- Excellent safety of cobalt free LiFePO4 battery
- Easy installation with modular and stacked design



P O W E R
- I N G O
T O M O -
R R O W O



Datasheet	ALP 5.0L-E2 US	ALP 10.0L-E2 US	ALP 15.0L-E2 US	ALP 20.0L-E2 US	ALP 25.0L-E2 US	ALP 30.0L-E2 US	ALP 35.0L-E2 US	ALP 40.0L-E2 US
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System data

System demo								
Battery module	ALP 5.0L-E2 US (5.12kWh,51.2V,46kg/101.4lbs)							
Parallel number	1	2	3	4	5	6	7	8
Energy capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh
Usable capacity	4.6kWh	9.2kWh	13.8kWh	18.4kWh	23kWh	27.6kWh	32.2kWh	36.8kWh
Maximum continuous discharge rate	3kW	6kW	9kW	11kW	11kW	11kW	11kW	11kW
Dimensions (W/D/H)*1	710/185/295mm 28.0/7.3/11.6inch	710/185/590mm 28.0/7.3/23.2inch	710/185/885mm 28.0/7.3/23.2inch	710/185/1180mm 28.0/7.3/46.5inch	710/185/1475mm 28.0/7.3/58.1inch	710/185/855mm*2 28.0/7.3/23.2inch*2	710/185/1180mm*2 28.0/7.3/46.5inch*2	710/185/1180mm*2 28.0/7.3/46.5inch*2
Weight*2	46kg/101.4lbs	92kg/202.8lbs	138kg/304.2lbs	184kg/405.7lbs	230kg/507.1lbs	276kg/608.5lbs	322kg/709.9lbs	368kg/811.3lbs
Standard charge/discharge current	60A	120A	180A	220A	220A	220A	220A	220A
Max current	60A	120A	180A	220A	220A	220A	220A	220A

General

C rating	0.6
Module capacity	100Ah
DoD	90%
DC-DC RTE	94%
Cell type	Cobalt Free Lithium Iron Phosphate (LFP)
Nominal voltage	51.2V
Operating voltage range	46.4~57.6V
IP protection	IP66/NEMA Type 4X
Installation*3	Wall-mounted or Floor installation
Operating temperature	-10°C~+50°C(14°F ~ +122°F)

Features

BMS monitoring parameters	SOC, system voltage, current, cell voltage, cell temperature, PCBA temperature measure ment
Scalability	Max. 8 packs in parallel (Max. 8 clusters in parallel)
Communication method	CAN
Warranty	10 Years

UL1973 +FCC , UN38.3, ROHS, UL9540A

*1 The dimension does not include the base, the extra base dimension is 710/185/125mm, and suggest to place them by two rows when the battery pack is over 5 units

*2 Weight without the base.

*3 Floor installation requires extra base.

* Nominal charge/discharge current and power derating will occur related to Temperature and SOC

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