

# ALP LV-US Modular Battery

- Max.220A continuous charge/discharge current
- Flexible capacity options, 5kWh to 160kWh
- Excellent safety of cobalt free LiFePO4 battery
- Easy installation with modular and stacked design



P O W E R  
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T O M O R R O W

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<https://us.growatt.com>

Datasheet	ALP 5.0L	ALP 10.0L	ALP 15.0L	ALP 20.0L	ALP 25.0L	ALP 30.0L	ALP 35.0L	ALP 40.0L
System data								
System demo								
Battery module	ALP 5.0L-E2-US (5.0kWh,51.2V,46kg/101.4lbs)							
Parallel number	1	2	3	4	5	6	7	8
Energy capacity	5kWh	10kWh	15kWh	20kWh	25kWh	30kWh	35kWh	40kWh
Usable capacity	4.6kWh	9.2kWh	13.8kWh	18.4kWh	23kWh	27.6kWh	32.2kWh	36.8kWh
Dimensions (W/D/H)* <sup>1</sup>	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	710/185/1770mm*2 28.0/7.3/30.3inch*2	710/185/2065mm*2 28.0/7.3/81.3inch*2	710/185/2360mm 28.0/7.3/92.9inch*2
Weight* <sup>2</sup>	46kg/101.4lbs	92kg/202.8lbs	138kg/304.2lbs	184kg/405.7lbs	230kg/507.1lbs	276kg/608.5lbs	322kg/709.9lbs	368kb/811.3lbs
Standard charge/ discharge current	75A	110A	165A	220A	220A	220A	220A	220A
Max current	90A	150A	220A	250A	250A	250A	250A	250A
General								
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* <sup>3</sup>	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							
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 690/185/80mm, 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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