

P O W E R
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Smart
Photovoltaic
Inverter
Series



2023



(619) 340-1203 | contact@helia.solar
11F, 9255 Sunset Blvd, Ste 1100, Los Angeles, CA 90069
1094 Cudahy Place, Suite 212, San Diego CA 92110

AE Modular Battery



- Flexible capacity options, 5kWh to 400kWh
- Excellent safety of cobalt free LiFePO4 battery
- Stacked installation without cable connection
- Remote firmware upgrade



Datasheet	AE5.0	AE10.0	AE15.0	AE20.0	AE25.0	AE30.0	AE35.0	AE40.0	AE45.0	AE50.0
System Demo										
Battery Module	AE Modular Battery - C1 (5.0kWh, 51.2V, 45kg)									
Number of Modules	1	2	3	4	5	6	7	8	9	10
Energy Capacity	5.0kWh	10.0kWh	15.0kWh	20.0kWh	25.0kWh	30.0kWh	35.0kWh	40.0kWh	45.0kWh	50.0kWh
Dimension (W/D/H)*1	650/350/165mm (25.6/14.6/6.5in)	650/350/305mm (25.6/14.6/12in)	650/350/445mm (25.6/14.6/17.5in)	650/350/585mm (25.6/14.6/23in)	650/350/725mm (25.6/14.6/28.5in)	650/350/865mm (25.6/14.6/34in)	650/350/1005mm (25.6/14.6/39.6in)	650/350/1145mm (25.6/14.6/45.1in)	650/350/1285mm (25.6/14.6/50.6in)	650/350/1425mm (25.6/14.6/56.1in)
Weight	47kg/103.4lb	92kg/202.4lb	137kg/301.4lb	182kg/400.4lb	227kg/499.4lb	272kg/598.4lb	317kg/697.4lb	362kg/796.4lb	407kg/895.4lb	452kg/994.4lb
Max Charge	60A	120A	150A	150A	150A	150A	150A	150A	150A	150A
Max Discharge	60A	120A	150A	150A	150A	150A	150A	150A	150A	150A
General										
Battery Type	Cobalt Free Lithium Iron Phosphate (LFP)									
Nominal Voltage	51.2V									
Operating voltage Range	48 - 57.6V									
IP Protection	IP20 /NEMA Type 1									
Installation	Floor installation*2									
Operation Temperature	0°C - 50°C / 32 - 122°F									
Features										
DoD	92%									
Multi-cluster AE battery system in parallel	Max. 8 clusters (Max. 400kWh)									
BMS Monitoring Parameters	SOC, System voltage, Current, Cell voltage, Cell temperature, PCBA temperature measurement									
Communication Port	CAN/RS485									
Performance Warranty	10 years									
Certification										
CE, ROHS, UL1973+FCC, UN38.3+PI965										

*1 The system dimension is included with the battery base

*2 Floor installation requires extra base (W/D/H=654/353/25mm)

*AE series battery has an EU model and a General model, the storage inverters sold in European countries only work with EU model AE battery.