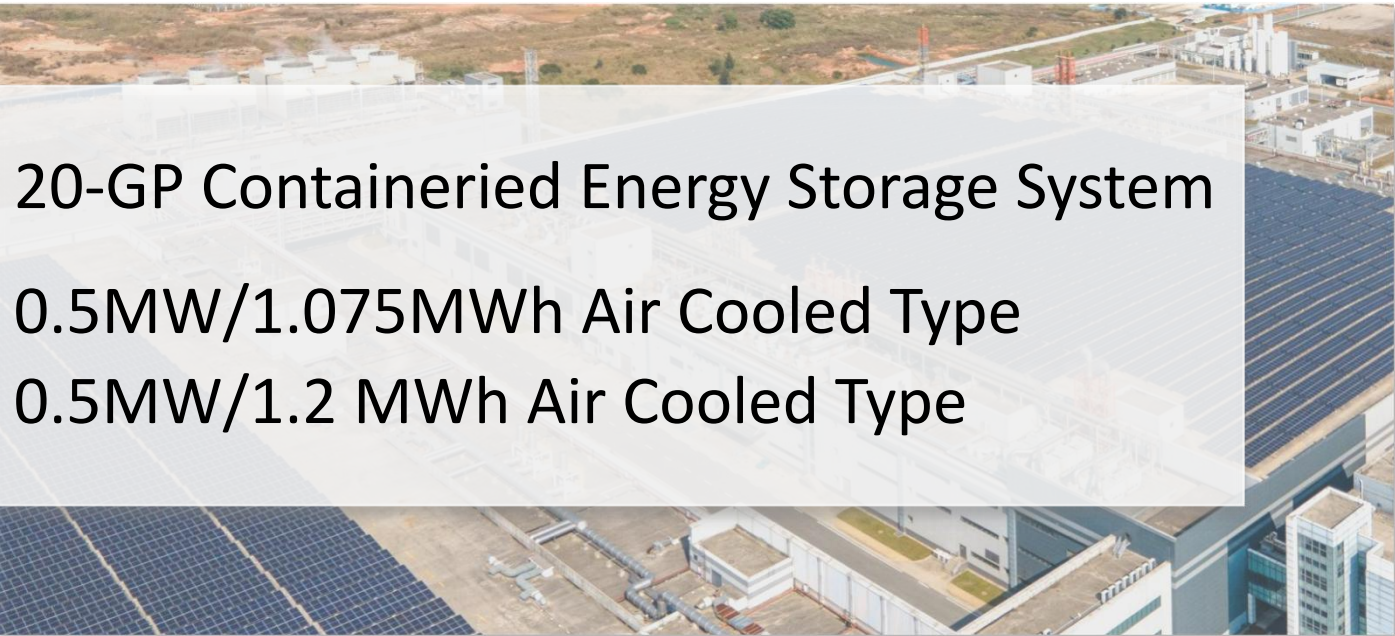




20-GP Containeried Energy Storage System

0.5MW/1.075MWh Air Cooled Type

0.5MW/1.2 MWh Air Cooled Type

- 20ft containerized design with high energy density up to 1.7MWh
- Flexible configuration from 250kW to 500kW and 600kWh to 1200kWh
- LFP battery system with >8000 cycles at 0.5C
- Multi-cluster parallel design up to 1MWh DC capacity
- Advanced multi-level BMS for cell-to-system level management
- Battery consistency controlled within 2% during operation
- High-efficiency PV integration with up to 98% charging efficiency
- Built-in transformer PCS for strong load adaptability
- Stable operation in weak-grid and off-grid environments
- Integrated EMS with real-time monitoring and remote control



PRODUCT PARAMETERS

Model	Hbowa-500kW/1075kWh	Hbowa-500kW/1200kWh)
PCS parameters		
Rated capacity	500kW	
Rated voltage	400V	
Rated current	722A	
Rated frequency	50/60Hz	
THDi	<3%	
THDu	< 1% linear; or≤5% nonlinear	
Power factor	1leading-1lagging (settable)	
Grid type	3W+N+PE	
Overload capacity	110% long-term, 120% 1min	
MPPT voltage range	250~1000V	
PCS brand	Megarevo MPS / ATESS / Other	
General parameters		
Degree of protection	IP20 (Indoor)	
Display	LCD touch-screen	
Relative humidity	0 ~ 95% (no condensation)	
Noise	< 70dB	
Operation temperature	-30℃ to + 55℃	
Cooling mode	Air Cooling	
Altitude	3000m (> 3000m Derating)	
Communication interface	RS485/CAN, TCP/IP	
Dimensions (W * D * H)	(600*720*2050mm)*2 (DC/DC model) + 1600*1050*2050mm	
Weight (approx.)	3205/3235/3265kg	
Battery parameters		
Battery rated capacity	1003.52kWh (200kWh*5)	1205.76kWh (241kWh*5)
Battery rated voltage	716.8V (51.2V*14)	768V (51.2V*15)
Battery voltage range	614~768V	672~864V
Series of Battery	5P*16S*14S	5P*16S*15S
Adaptive battery	LiFePO4	LiFePO4
Rated capacity (Ah)	1400Ah (280Ah*5)	1570Ah (314Ah*5)
Max. Charge/Discharge Current	700A@25℃	785A@25℃
Each battery pack	51.2V280Ah	51.2V314Ah
Cell Capacity	280Ah	314Ah
General parameters		
Degree of protection	IP54	
Working Temperature	0℃~50℃ Charge -10℃ ~50℃ Discharge	
Transport or Storage Temperature Range	-20C~60C	
Relative humidity	5%-95% (no condensation)	
Fire extinguishing system	Aerosol/Perfluorohexane/heptafluoropropane pipeline fire extinguishing system	
Battery compartment cooling method	Air-conditioning cooling	
Efficiency	96%	
Altitude	<2000	
Cycle Life	(0.5C/0.5C-80% DOD) > 6000 times	
Certification	CE/IEC/UN38.3/MSDS/ROHS	
Communication interface	RS485/CAN/BUS/Modbus TCP/IP	
Dimensions (W * D * H)	6058*2591*2438mm	6058*2438*2896mm
Battery Weight (approx.)	14t	16t

※The manual is for reference only and is subject to actual communication.