

C&I SERIES

AIR-COOLED ENERGY STORAGE CABINET

AU-50/100&120-AF



Optimized Energy Utilization

- RTE up to 90%
- 100% DOD
- Direct PV integration with built-in MPPT



Reliable and Protected Operation

- Optimized airflow design ($\Delta T < 6^{\circ}\text{C}$)
- IP55 protection



Compact and Scalable Design

- Footprint only 0.96 m²
- Modular parallel expansion



100KW
Max
output power



8000+
Cycles
Long Cycle Life



IP55
Protection
Level



100%
Max
Dod

Technical Specification

BATTERY CABINET	
Cell Type	LFP/314Ah
Pack Configuration	20.096 kWh/IP20S
System Configuration	100.48 kWh/IP100S
Rated DC Voltage [V]	320
DC Voltage Range [V]	280-360
Max. Charge/Discharge Rate	0.5C
Max. Depth of Discharge	100% (25 ± 2°C)
Cycle Life	≥8,000 cycles
PV INPUT	
Max. Input Power [kW]	100
PV Votage Range [V]	150-850
MPPT	4
Max. Input Current [A]	40*4
AC SIDE	
Rated Output Power [kW]	50
Rated AC Voltage [V]	400
AC Voltage Range	±15%
Grid Type	3W+N+PE
Rated Frequency [Hz]	50/60
Power Factor	0.99/-0.8~+0.8
THDi	≤3%
DC Ratio	<0.5%lpn
GENERAL	
Max. Round Trip Efficiency	90%
Communication	Modbus TCP/IP
Fire Suppression System	Aerosol
Ingress Protection	IP55
Cooling	Air cooling
Operating Temperature [°C]	-25°C~55°C (Derating after 45 °C)
Anticorrosion Rating	C4 (C5 optional)
Humidity	0~95% RH (non-condensing)
Altitude	3000m (Derating above 2000m)
Dimensions (W×H×D)	800*1200*2100
Weight	1200
Safety/EMC	UN38.3, IEC62619, IEC63056,IEC62477-1,IEC61000-6-2/4
Grid code	EN50549-1/-10,EN50549-2/-10,G99, VDE4105, NRS097, C10/11