NUUKO

ESS Series

Container energy storage system



KEY STRENGTHS

- Multiple working modes can be flexibly set.
- Support battery management system and comprehensive thermal management.
- The electrical compartment and battery compartment are separated, preventing the spread of thermal runaway.
- Support real-time online monitoring of system status.
- Support simultaneous access to load, battery, grid, DG, and PV.
- Integrated design, easy to transport and install, flexible deployment.

APPLICATIONS

C&I peak shaving and valley filling

Emergency power supply

Grid side peak regulation and frequency modulation

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Model	NUK-BESS 500KW/1MWh	NUK-BESS 1000KW/2MWh
AC data		
Rated power (kW)	500	1,000
Rated voltage (V)	400	
Rated current (A)	722	1,445
Voltage range (V)	320–460	
Rated frequency (Hz)	50/60	
Frequency range (Hz)	45–55 / 55–65	
THDi (on–grid)	<3%	
THDu (off–grid)	⩽ 1% linear;⩽ 5% non–linear	
Power factor	1leading~1lagging(settable)	
Overload capacity	110% long–term	
AC output	3W+N+PE	
Isolation transformer	315/400	
On / off–grid switching	Support	
PV data		
Max. PV input voltage (V)	1,000	
Max. PV power (kW)	600/660/720	1,200/1,320/1,440
MPPT operating voltage range (V)	250~850	
Buck–boost mode	Support	
Battery data		
Cell type	3.2V/280Ah/LFP	
Nominal voltage(V)	768V/1P240S	
Nominal energy (MWh)	1.0752	2.1504
Working voltage range (V)	672~850V	
Max. charge and discharge rate	0.5C@25℃	
Number of battery cycles	⩾6,000	
System data		
System specification	500kW/1,075.2kWh (1000kWh)	1,000kW/2,150.4kWh (2000kWh)
Dimensions W *D *H (mm)	6,058×2,438×2,896	12,192×2,438×2,896
Net weight (kg)	21,000	38,000
Operating temperature (℃)	0 ~ +45	
Relative humidity	0 ~95% (non–condensing)	
Ingress protection	IP54	
Noise emission (dB)	<75	
Max. operating altitude (m)	5,000(>3,000 derating)	
Cooling	Intelligent air cooling	
Fire extinguishing system	FM200/NOVEC1230(optional)	
Display	7” device display +10” EMS display +10” BMS display (configurabl e)	
EMS communication	RS485, TCP/IP	