On/off-grid Switching Cabinet

BTS200~1000K-K-HUD/T Series

Applicable System

- Automatic on/off grid switching for energy storage system of 100kW-500kW
- C&I energy storage system for user side
- System with peak load shifting and emergency power requirements

Product Features

- Millisecond level (100ms) automatic micro-grid forming when Grid fault occurs
- Manual operation mode, achieving necessary operation for experiment and switching control fault
- Bottom in top out thermal system, reducing the water leakage risk in raining days



Technical Specification

Items	BTS200K-K-HUD/T	BTS600K-K-HUD/T	BTS1000K-K-HUD/T
System parameter			
Grid capacity	200KVA	600KVA	1000KVA
Transformer power	100KW	300KW	500KW
Maximum load-side AC power	110KW	330KW	550KW
Maximum AC power on storage side	110KW (@400Vac)	330KW (@400Vac)	550KW (@400Vac)
Access Capacity	ESS ≤1 unit	ESS ≤3 unit	ESS ≤5 unit
Switch Selection	Contactor type		
Switching time	<100ms		
Permissible grid voltage range	360~440Vac		
Rated grid voltage	400Vac		
Frequency	50Hz		
Wiring Method	3W+PE+N		
Efficiency	97%		
Working environment			
Maximum working altitude	3000m (>2000m derating)		
Working environment temperature	-35~55°C		
Working humidity range	0~100% (no-condensing)		
System storage temperature range	-40~70°C		
Mechanical parameters			
Weights (T)	1.5	1.8	2.3
Dimensions (D*W*H)	1200*1300*2249mm		
Communication protocols	MODBUS TCP/ IEC104/61850		
Inlet method	bottom in and bottom out		
Safeguard	EPO/Over-temperature protection/Over-load protection		
Anti-corrsion grade	C3(C5 optional)		
Protection class	IP55		
Cooling method	Air cooling		

- Specification indexes may be subject to changes without further notice.