



**SPECIALISED
BATTERY SYSTEMS**

A MEMBER OF THE **Hudaco** GROUP

SBS-ESS BACK-UP SOLUTION

SBS 8/10KHB-T/EU



FEATURES

- Maximum efficiency of 98.0% & CEC efficiency of 95%
- Maximum PV power of 15KW
- String current of 30A, compatible with high-power modules
- Advanced parallel up to 9Pcs
- BMS management system to ensure longer battery life
- Compatible with both lead-acid and lithium battery energy storage systems
- Remote configuration and upgrade

Model	SBS 8KHB-180-T/EU		SBS 10KHB-210-T/EU
Efficiency			
Max. Efficiency (PV to AC)	98.0%		
Max. Efficiency (BAT to AC)	95.0%		
Input (PV)			
Max. PV Power	12000W		15000W
Max. Input Voltage	600V		
Max. Input Current (PV-A/PV-B)	30A/22A/22A		
Max. Output Current (input A/input B)(A)	40A/30A/30A		
Start Operating Voltage (V)	90V		
MPPT Operating Voltage Range	70V-540V		
No. of MPPT Trackers	3		
String Per MPP Tracker	2		
Input (BAT)			
Compatible Battery Type	Lithium-ion/Lead-acid		
Nominal Battery Voltage	48V		
Battery Voltage Range	40V-64V		
Max. Charge/discharge Current	210A/180A		210A/210A
Max. Charge/discharge Power	10000W/10000W		10000W/10000W
Lithium Battery Charge Curve	Self-adaptation to BMS		
Input (Grid)			
Nominal AC Input Power	12000W		15000W
Max. AC Input Current	52.5A		65.3A
Rated AC Voltage	230V (Single Phase)		
Output (Grid)			
Nominal AC Output Power			10000W
Max. AC Output Apparent Power	8000W		10000W
Max. AC Output Power (PF=1)	8800VA		11000VA
Max. AC Output Current	8800W		11000W
Rated AC Voltage	40A		50A
Rated Grid Frequency	230V,L+N+PE		
Grid Connection	50Hz/60Hz		
Power Factor	Single Phase		
THDI	>0.99 @rated power (Adjustable 0.8LD - 0.8LG)		
Output (Back up)			
Nominal Output Power	8000W		10000W
Nominal Output Voltage	230V,L+N+PE		
Nominal Output Frequency	50Hz/60Hz		
Nominal Output Current	34.8A		43.5A
Maximum Power (Is)	16000VA		20000VA
Nominal Output Voltage	230V,L+N+PE		
Nominal Output Frequency	50Hz/60Hz		
Transfer Time	10ms (typ)/20ms(max)		
THDV	<3% @100% R Load		
Protection			
Protection Category	Class I		
DC Switch	Support		
Anti-Islanding Protection	Support		
AC Overcurrent Protection	Support		
AC Short Circuit Protection	Support		
DC Reverse Connection	Support		
Surge Arrester	DC Type III, AC Type III		
Insulation Detection	Support		
Leakage Current Protection	Support		
PV Overvoltage Category	II		
Gen	Support		
AFCI	Optional		
RSD	Optional		
General			
Max. Operation Altitude	4000m		
Noise Emission	<45dB		
Ingress Protection Degree	IP65		
Operating Temperature Range	-25°C~60°C (>45°C derating)		
Relative Humidity	0~100%		
Cooling Concept	Fan Cooling		
Mounting	Wall bracket		
Dimensions (W*H*D)	420mm*800mm*240mm		
Weight	37kg		
PV Connection Way	MC4/H4		
Battery Connection Way	DC Special Connector		
HMI & COM			
Display	LED+APP		
Communication Interface	RS485/CAN(for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: WiFi/GPRS/LAN		
Certification			
Grid	NRS 0-97 / IEC61727 / IEC62116		
Safety	IEC62109		
EMC	EN 61000		
Warranty			
5 YEARS/10 YEARS (OPTIONAL)			

Remarks:

- The range of output voltage & frequency may vary of different grid codes
- Specifications are subject to change without advanced noticed