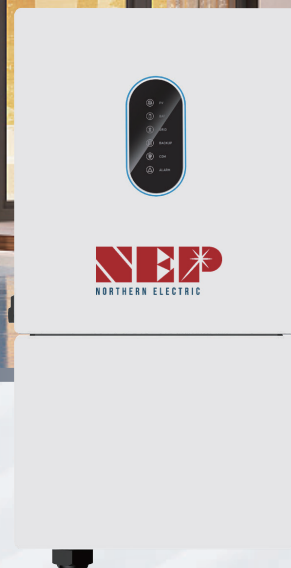


BES 5/6/7.6/10KHB-UL

SPLIT PHASE HYBRID INVERTER

Energy Storage Inverter



MAXIMIZE PV INPUT POWER

- Up to 200% oversizing allowed with 3 MPPTs
- Support high power module with 30A PV input current
- Support AC coupled solar input
- Integrated arc fault circuit interrupter (AFCI) and Rapid Shutdown

VERSATILE APPLICATIONS

- Stackable up to 9 units
- Standby generator connection for whole-home back up
- Four application modes, mixed with time control
- Remote configuration and upgrade

FLEXIBLE BATTERY CONFIGURATION

- Built-in DC Breaker for safety and reliability
- Support 40-64V Lithium or Lead-acid battery
- Maximum battery charge/discharge current of 210A

STABLE OUTPUT POWER

- Continuous 110% of nominal AC power
- Support 120/240/208V connections
- Seamless backup transition (<10ms)

Efficiency	BES 5KHB-130-D2/UL		BES 6KHB-130-D2/UL	BES 7K6HB-180 T2/UL	BES 10KHB-210-T2/UL
Max.Efficiency (PV to AC)			98.0%		
Max.Efficiency (BAT to AC)			94.5%		
Input (PV)					
Max. PV Input Power	7500W	9000W		12000W	15000W
Max. PV Voltage			600V		
Start-up Voltage			90V		
MPPT Operating Voltage Range			70V-540V		
Max. Input Current per MPPT	30A/22A		30A/22A/22A		
Max Short Current per MPPT	40A/30A		40A/30A/30A		
String per MPPT	4 (2/2)		6 (2/2/2)		
Nos. of MPPT	2		3		
Input/Output (BAT)					
Battery Type	Lithium-ion/Lead-acid				
Nominal Battery Voltage	48V				
Battery Voltage Range	40V-64V				
Max. Charge/Discharge Current	210A/130A	210A/130A	210A/180A	210A/210A	
Max. Charge/Discharge Power	10000W/5000W	10000W/6000W	10000W/7600W	11400W/11400W	
Output (Grid)					
Nominal AC Output Power	5000W	6000W	7600W	10000W	
Max. AC Output Apparent Power	5500VA	6600VA	7600VA	11400VA	
Max.AC Output Power (PF=1)	5500W	6600W	7600W	11400W	
Nominal AC Output Current	20.9A/24.1A	25A/28.9A	31.7A/36.6A	41.7A/47.5A	
Max. AC Output Current	26.5A	31.8A	40.4A	47.5A	
Nominal Grid Voltage	120V/240V (Split phase) / 208V (2/3 phase)				
Nominal Grid Frequency	50Hz /60Hz				
Grid Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)				
Power Factor	> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)				
THDI	<3% (Rated Power)				
Output (Back up)					
Nominal Output Power	5000W	6000W	7600W	10000W	
Nominal Output Current	20.9A/24.1A	25A/28.9A	31.7A/36.6A	41.7A/47.5A	
Peak Output Apparent Power (1s)	10000VA	12000VA	15200VA	20000VA	
Nominal Output Voltage	120V/240V (Split phase) / 208V (2/3 phase)				
Nominal Output Frequency	50Hz/60Hz				
Transfer Time	<10ms				
THDV	<3% @100% R Load				
Protection					
Protection Category	Class I				
DC Switch	Yes				
Anti-islanding Protection	Yes				
AC Overcurrent Protection	Yes				
DC/AC Overvoltage Protection	DC Type II, AC Type III				
AC Short Circuit Protection	Yes				
DC Reverse Protection	Yes				
Surge Arrester	DC Type II, AC Type II				
Insulation Resistance Detection	Yes				
Leakage Current Protection	Yes				
AFCI	Yes				
RSD	Yes(MLRSD Sunspec)				
Generator	Yes				
General					
Max. Operation Altitude	2000m				
Ingress Protection Degree	IP65/NEMA 3R				
Operating Temperature Range	-25°C ~60°C (>45°C derating)				
Relative Humidity	0~100%				
Cooling Method	Fan Cooling				
Mounting	Wall bracket				
Dimensions (W*H*D)	16.5*31.5*9.4 inch (420mm*800mm*240mm)				
Weight	40Kg/88lb				
PV Connection	Terminals				
HMI & COM					
Display	Wireless & APP + LED, LCD (optional)				
Communication Interface	RS485/CAN (for BMS), DRM/RS485 (for meter), RS485, Optional: WiFi /LAN				
Certification					
Safety	UL 1741/CSA C22.2/UL 1699B				
Grid	UL1741SB, IEEE1547: 2018, HECO SRD 2.0				
EMC	FCC Part 15 Class B				
Warranty	5 Years				

Remarks: • The range of output voltage and frequency may vary depending upon different grid codes.
• Specifications are subject to change without advance notice.