

BHPS Series

BHPS50/100/150-US-220Y(D)

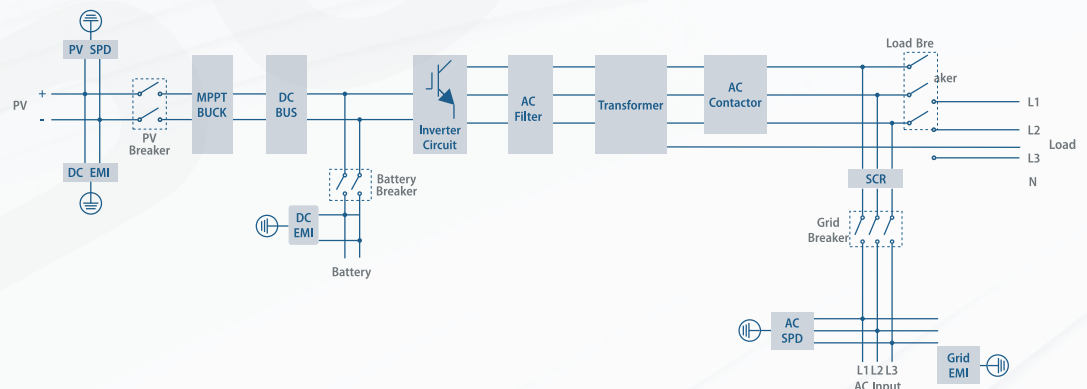
- Large capacity all-in-one hybrid inverter for commercial application.
- Supporting up to 600kW system capacity, complied with American standard.



Features

- All-in-one hybrid inverter
- Seamless on/off grid transfer within 10 ms
- Programmable working mode
- Support remote control of DG
- Touchscreen LCD
- Quadruple capacity by paralleling 4 units

Block Diagram



BHPS50-US		BHPS100-US		BHPS150-US	
AC(on-grid)					
Apparent power	50kVA		100kVA		150kVA
Rated power	50kW		100kW		150kW
Rated voltage			220V Wye		
Rated current	131.3A		262.7A		394.1A
Voltage range			190-240V		
Rated frequency			50/60Hz		
Frequency range			45~55/55~65Hz		
THDI			<3%		
PF			0.8 lagging~0.8 leading		
AC input connection			3/N/PE Wye / 3/N/PE Delta(Opt)		
AC input	50kVA		100kVA		150kVA
AC (off-grid)					
Apparent power	50kVA		100kVA		150kVA
Rated power	50kW		100kW		150kW
Rated voltage			220V Wye		
Rated current	131.3A		262.7A		394.1A
THDU			≤2% linear		
Rated frequency			50/60Hz		
Overload capability			110%-10 mins 120%-1 min		
DC (Battery and PV)					
Max. PV open-circuit voltage			1000V DC		
Max. PV power	55kWp		110kWp		165kWp
PV MPPT voltage range			480V-800V DC		
PV max. input current	104.2A		208.3A		312.5A
PV Isc	130.2A		260.4A		390.6A
Battery voltage range			400V-600V		
Full load battery voltage range			400V-600V		
Max. charge power	50kW		100kW		150kW
Max. discharge power	50kW		100kW		150kW
Max. charge current	125A		250A		319A
Max. discharge current	125A		250A		319A
General Information					
Protection degree			Type 1		
Noise emission			<65dB(A)@1m		
Operating temperature			-25 °C~+55 °C		
Cooling method			Forced-air		
Relative humidity			0-95% non-condensing		
Max. altitude			6000m (derate over 3000m)		
Dimension (W/H/D)	950/1860/750mm		1200/1900/800mm		1200/1900/800mm
Weight	590kg		923kg		1200kg
Build-in transformer			Yes		
Lightning protection			Type II		
Transfer between on/off grid			Automatic≤10ms		
Standby consumption			<30W		
Communication					
Display			Touch screen		
Communication			RS485/CAN		
Certificate					
UL1741 , CSA-C22.2					

* The MPPT voltage of PV strings should be 50~200V higher than the Max battery voltage. * Support voltage types: 190-240V Wye & 190-240V High-leg Delta with split phase(Opt)

There will be derating at different voltage levels and standards, as shown below:

Voltage system		Rated power of AC IN&OUT		Voltage system		Rated power of AC IN&OUT	
190V Wye		86.50%		190V High-leg Delta		79.30%	
208V Wye		94.50%		208V High-leg Delta		86.80%	
220V Wye		100%		220V High-leg Delta		91.80%	
240V Wye		100%		240V High-leg Delta		100.00%	