

Three phase Hybrid Inverter

BSE20/30KH3

POWER:
20KW/30KW



WIDE RANGE
Voltage Range
(150-800V)



100% UNBALANCE
Support Unbalance Load

**Max.
1.5**

PV OVERSIZE
1.5 Times PV Oversize

**Max.
40A**

MAX. 40Adc
String Current Up To 40A

**<10
ms**

UPS FUNCTION
Switch Time < 10ms



INPUT
Support Generator

Support for Time-of-use Optimization



Configurable Operation Modes



AFCI (Optional) & Rapid Shutdown Ready



Build in Anti-feed-in Function

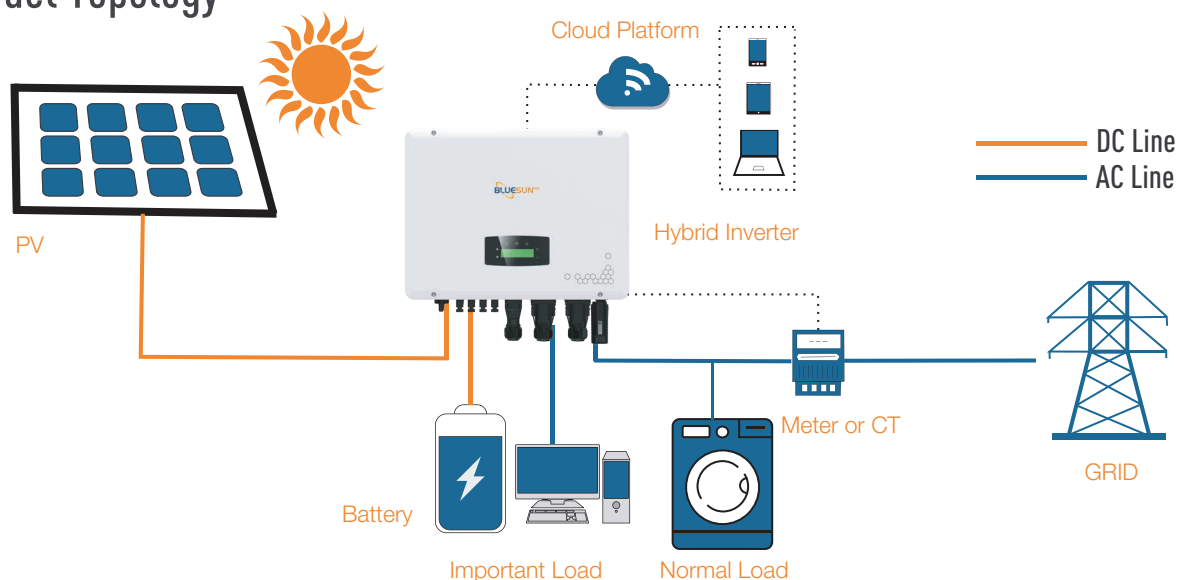


100% unbalanced output, each phase;
200% unbalanced output, each phase (Below 10kW)



Smart Monitoring & Remote Firmware Upgrade

Product Topology



Model		BSE20KH3	BSE30KH3
PV Input	Max. DC Input Power (kW)	30	45
	Max. PV Voltage (V)	1000	
	Rated DC Input Voltage (V)	620	
	DC Input Voltage Range (V)	150-1000	
	MPPT Voltage Range (V)	150-850	
	Full MPPT Range(V)	500-850	
	Start-up Voltage (V)	160	
	Max. DC Input Current (A)	32x2	40x2
	Max. Short Current(A)	48x2	60x2
	No. of MPPT Tracker / Strings	2/4	2/4
Battery Port	Battery Nominal Voltage (V)	500	550
	Battery Voltage Range (V)	150-800	
	Max. Charge/Discharge Current (A)	50	60
	Max. Charge/Discharge Power (W)	20K	30K
	Charging Curve	3 Stages	
	Compatible Battery Type	Li-ion / Lead-acid	
AC Grid Output	Nominal AC Output Power (VA)	20000	30000
	Max. AC Input Power	30000	45000
	Max. AC Output Current (A)	32	48
	Nominal AC Voltage (V)	230/400	
	Nominal AC Frenquency (Hz)	50/60	
	Power Factor	1 (-0.8-0.8)	
	Current THD (%)	<3%	
AC Load Output (Back-up)	Nominal Output Power (VA)	20000	30000
	Nominal Output Voltage (V)	230/400	
	Nominal Output Frequency (Hz)	50/60	
	Nominal Output Current (A)	29	43.5
	Peak Output Power	22000VA, 60s	33000VA, 60s
	THDV (with linear load)	<3%	
	Switching Time (ms)	<10	
Efficiency	Europe Efficiency	97.80%	98.10%
	Max. Efficiency	98.30%	98.50%
	Battery Charge/Discharge Efficiency	98.00%	
	MPPT Efficiency	99.90%	
Protection	Reverse Polarity Protection	Yes	
	Over Current / Voltage Protection	Yes	
	Anti-islanding Protection	Yes	
	AC Short-circuit Protection	Yes	
	Leakage Current Detection	Yes	
	Ground Fault Monitoring	Yes	
	Grid Monitoring	Yes	
	Enclosure Protect Level	IP65	
General Data	Dimensions (H x W x D) (mm)	558 x 535 x 260 mm	
	Weight (kg)	29kg	36kg
	Topology	Transformerless	
	Cooling Concept	IntelligentFan	
	Relatively Humidity	0-100%	
	Operating Temperature Range (°C)	-25 to 60°C	
	Operating Altitude (m)	<4000	
	Noise Emission (dB)	<40	
	Standby Consumption (W)	<5	
	Display & Communication Interfaces	LCD, LED,RS485,CAN,Wi-Fi,GPRS,4G	
	Certification & Approvals	NRS97, G98/G99, EN50549-1, C10/C11, AS 4777, VDE-AR-N4105, VDE0126, IEC62040, IEC62109-1, IEC62109-2	
	EMC	EN61000-6-2,EN61000-6-3	