



Three phase Hybrid Inverter

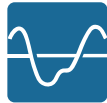
BSE20/30KH3

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. 40A_{dc}
 String Current Up To 40A

**<10
ms**

UPS FUNCTION
 Switch Time < 10ms

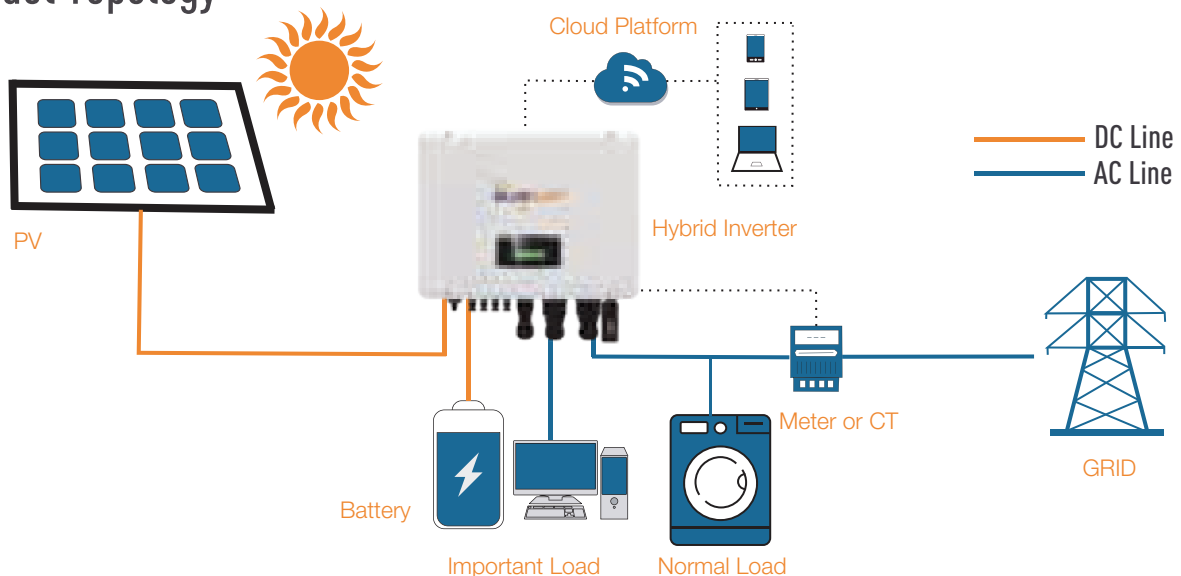


INPUT
 Support Generator

- 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 Frequency (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