

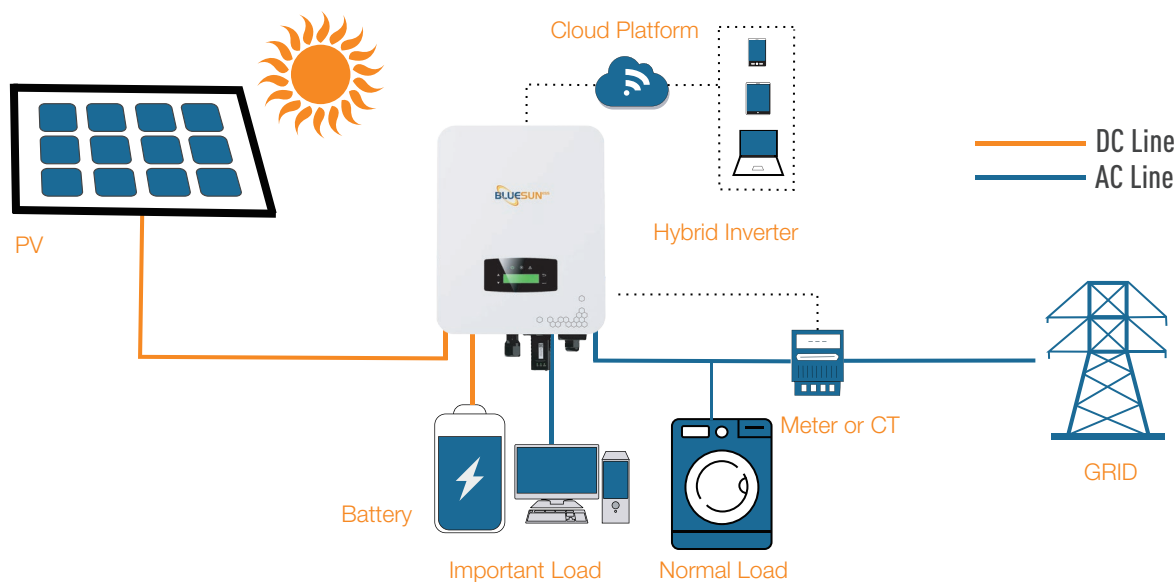
Hybrid Inverter BSE6KL1

Installation and Operation Manual

POWER:
6KW



Product Topology



	Model	BSE6KL1
PV Input	Max. Input Power (kW)	9.0
	Max. PV Voltage (V)	550
	MPPT Range (V)	80 - 500
	Full MPPT Range (V)	170 - 500
	Normal Voltage (V)	360
	Startup Voltage (V)	100
	Max. Input Current (A)	18.5 x 2
	Max. Short Current (A)	26 x 2
	No. of MPP Tracker / No. of PV String	2/2
Battery Port	Max. Charge/Discharge Power (kW)	4.8
	Max. Charge/Discharge Current (A)	80
	Battery Normal Voltage (V)	51.2
	Battery Voltage Range (V)	40-60
	Battery Type	Li-ion / Lead-acid etc.
AC Grid	Max Continuous Current (A)	28.0
	Max Continuous Power (kVA)	6.0
	Nominal Grid Current(A)	27.3 / 26.1
	Nominal Grid Voltage (V)	198 to 242 @ 220 / 207 to 253 @ 230
	Nominal Grid Frequency (Hz)	50 / 60
	Power Factor	0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited)
	Current THD (%)	<3
AC Load Output	Max Continuous Current (A)	28.0
	Max Continuous Power (kVA)	6.0
	Max Peak Current (A) (10min)	41.0 / 39.2
	Max Peak Power (kVA) (10min)	9.0
	Nominal AC Current (A)	27.3 / 26.1
	Nominal AC Voltage L-N (V)	220 / 230
	Nominal AC Frequency (Hz)	50 / 60
	Switching Time (s)	Seamless
	Voltage THD (%)	< 3
Efficiency	CEC Efficiency (%)	97.0
	Max. Efficiency (%)	97.6
	PV to Bat. Efficiency (%)	98.1
	Bat. between AC Efficiency (%)	96.8
	MPPT efficiency (%)	99.9
Protection	PV Reverse Polarity Protection	Yes
	Over Current/Voltage Protection	Yes
	Anti-Islanding Protection	Yes
	AC Short Circuit Protection	Yes
	Residual Current Detection	Yes
	Ground Fault Monitoring	Yes
	Insulation Resister Detection	Yes
	PV Arc Detection	Yes
	Enclosure Protect Level	IP65 / NEMA4X
General Data	Dimensions (W x H x D, mm)	370 x 513 x 192
	Weight (kg)	17
	Topology	Transformerless
	Cooling	Intelligent Fan
	Relatively Humidity	0 - 100 %
	Operating Temperature Range (°C)	- 25 to 60
	Operating Altitude (m)	< 4000
	Noise Emission (dB)	- 25
	Standby Consumption (W)	< 10
	Mounting	Wall Bracket
	Communication with RSD	SUNSPEC
	Display & Communication Interfaces	LCD, LED,RS485,CAN,Wi-Fi,GPRS,4G
	Certification & Approvals	NRS 0 97, G99, C10/C11, ROHS,IEC61683,IEC61727,IEC62116 , IEC62109-1, IEC62109-2 -2
	EMC	EN61000-6-1,EN61000-6-3