BAYKEE
Provide High-quality Power For Global Industry

BK-SI Series

Wall-mounted Photovoltaic Energy Storage All-in-One Machine



BK-SI Series Brief

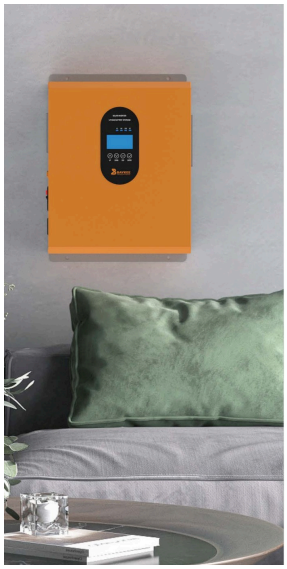
The BK-SI-1200W-1280WH puts a 1.2kVA off-grid inverter, a 1000W MPPT solar charger and a 12.8V 100Ah LiFePO4 battery into one wall-mounted cabinet. It takes power from solar, the grid or a generator, and is set up and monitored from its own LCD.

Main Features

- All-in-one wall mount: quick setup, plug-and-play
- Smart interface: large LCD with intuitive controls
- Compact inverter: 1.0 PF high-frequency, powerful and lightweight
- Solar maximiser: wide voltage range and MPPT tracking, energy-efficient
- Advanced storage: LFP battery and BMS for safety and longevity
- Triple hybrid input: solar, grid and generator compatibility

Application

- Homes and small offices
- Backup power for lighting, fans and electronics
- Off-grid and weak-grid sites



Technical Specifications

	Model	BK-SI-1200W-1280WH
AC Input	Rated Voltage	230VAC (208/220/230/240VAC)
	Voltage Range	90V~280VAC, settable
	Access Method	L+N+PE
	Rated Grid Frequency	50/60Hz
	Max. Current	10A
PV Input	Max. Input Power	1000W
	Max. Input Current	14A
	MPPT Voltage	20~100VDC
	Max. Efficiency	99.50%
	Number of MPPT Routes	1
AC Output	Max. Output Power	1.2kVA
	Rated Voltage	230VAC (208/220/230/240VAC)
	Access Method	L+N+PE
	Rated Grid Frequency	Battery mode: 50/60Hz; line mode: synchronised range
	THDi	≤3% (linear load) / ≤5% (non-linear load, PF=0.7)
	Power Factor	1
	Efficiency	>90.5% @1.2kVA (battery mode) / 99% @1.2kVA (line mode)
Battery	Lithium Battery Type	LiFePO4
	Rated Voltage	12.8V
	Voltage Range	10~14.6V
	Battery Capacity	100Ah
	Battery Energy	1.28kWh
	Charging Voltage	14.6V
	Max. Charger Current	100A
	Charger Mode	2~60A (line mode) + max. 60A (PV mode), settable
General	Dimensions	448×332×152mm
	Weight	22kg
	IP Level	IP21
	Operating Temperature Range	-10°C~50°C / 20%~95% (non-condensing)
	Storage Temperature	-15°C~60°C
	HMI	LCD
	Transfer Time	10ms (UPS mode) / 10ms (appliance mode) / 10ms (generator mode)
	Communication Mode	RS232, baud 9600
	Parallel Port	N/A
	Activation	AC / PV activation

Product specifications are subject to change without further notice.