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BKS Series

Hybrid Solar Inverter



BKS Series Brief

Two hybrid solar inverters with a built-in MPPT charge controller: the BKS-PV4000-24L takes 4000W of PV and delivers 3000VA, and the BKS-PV6000-48PL takes 6000W of PV and delivers 5000VA, with parallel capability and feed-in to the grid.

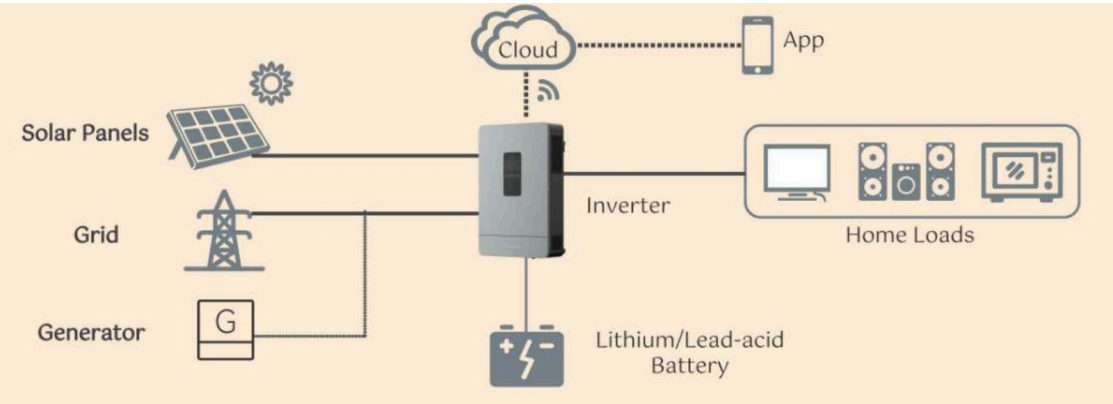
Both work with lithium and lead-acid batteries, have two AC outputs and a detachable dust cover, and can be monitored over Wi-Fi.

Main Features

- Built-in MPPT solar charge controller
- Supports lithium and lead-acid batteries
- Dual AC output
- LED display
- Feed-in to grid (5000VA model)
- Wide-range MPPT, 120-500V
- Dry contact
- Wi-Fi monitoring
- Detachable dust cover

Application

- Residential solar with battery storage
- Generator-assisted sites
- Off-grid homes and small businesses



Technical Specifications

	Model	BKS-PV4000-24L	BKS-PV6000-48PL
	Phase	1-phase in / 1-phase out	
	Rated Power	3000VA / 3000W	5000VA / 5000W
	Parallel Capability	No	Yes
Input	Voltage	230VAC	
Input	Selectable Voltage Range	170-280VAC (for personal computers); 90-280VAC (for home appliances)	
Input	Frequency Range	50Hz / 60Hz (auto adaptive)	
Input	Current	40A	
Output	AC Voltage Regulation	230VAC ±5%	
Output	Surge Power	6000VA	10000VA
Output	No. of Outputs	2	
Output	Second Output On/Off Condition	Time setting and battery voltage setting	
Output	Efficiency (Peak)	93% @24V	93% @48V
Output	Transfer Time	10ms	
Output	Overload Capacity (Battery Mode)	60s @102%~110% load; 10s @110%~130% load; 3s @130%~150% load; 0.2s @150% load	
Battery	Battery Voltage	24VDC	48VDC
Battery	Floating Charge Voltage	27VDC	54VDC
Battery	Overcharge Protection	31VDC	61VDC
Battery	Battery Type	Lithium and lead-acid	
Solar & AC Charger	Solar Charger Type	MPPT	
Solar & AC Charger	No. of MPPT Trackers	1	
Solar & AC Charger	Max. PV Array Power	4000W ×1	6000W ×1
Solar & AC Charger	MPPT Range Operating Voltage	120-450VDC	
Solar & AC Charger	Max. PV Array Open Circuit Voltage	500VDC	
Solar & AC Charger	Max. PV Input Current	12A	18A
Solar & AC Charger	Max. Solar Charge Current	120A	80A
Solar & AC Charger	Max. AC Charge Current	120A	80A
Solar & AC Charger	Max. Charge Current	120A	80A
Physical	Dimensions (L×W×H)	510×306×115mm	
Physical	Net Weight	8.7kg	9.5kg
Physical	Gross Weight	11.0kg	11.8kg
Physical	Communication Interface	RS485 / RS232 / USB / dry contact	
Physical	Monitoring	Wi-Fi (optional)	
Physical	External Current Sensor Port	No	

	Model	BKS-PV4000-24L	BKS-PV6000-48PL
Environment	Ingress Protection	IP20	
	Humidity	5% to 95% relative humidity (non-condensing)	
	Operating Temperature	-10°C to 50°C	
	Storage Temperature	-15°C to 60°C	
	Max. Operating Altitude	4000m (derating above 1000m)	
	Compliance Safety	IEC 61000-6-2, IEC 61000-6-4, IEC 62109-1, IEC 62109-2, IEC 61683	

Product specifications are subject to change without further notice.