



Energy Storage Hybrid Inverter (America)



Application Scenario



Villa



Communication base station



Nomadic area



Farm



Household



Field power supply

Flexible

- The model covers 7.6kw -11.4KW, with unified appearance design.
- Wide battery input range, compatible with a variety of lithium batteries and lead-acid.

Grace

- Fashionable appearance, convenient wiring.
- IP65 design, natural cooling, external fan free design, low noise , improve the whole machine life.

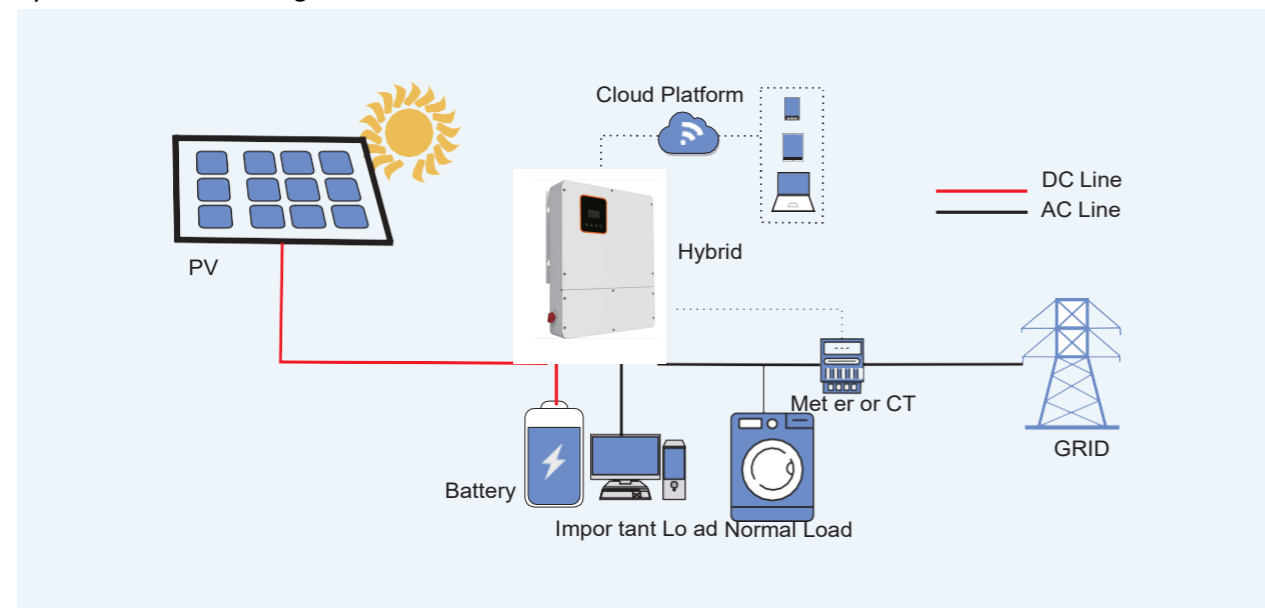
Reliable

- Battery reverse connect protection, the charge and discharge are controlled by intelligent software to improve the battery life.
- Input and output lightning protection, PV arcing detection.
- Discharge at full power and disconnect the charger automatically when the battery is full.
- Off grid full power output, transient 1.5 times overload, soft start mode, with air conditioning, water pump and other loads.
- Insulation detection, leakage battery, ground fault detection, island protection to prevent electric shock.

Advanced

- Maximum efficiency up to 98.2% .
- 4 independent MPPT design, making full use of light energy in different directions.
- Distributed virtual power station management node.
- Remote monitoring of computers and mobile phones

System connection diagram



Model	BD7K6TL-NA	BD9KTL-NA	BD10KTL-NA	BD11K4TL-NA
PV input				
PV input power	10KW	11.7KW	13KW	14.82KW
MPPT number	4			
PV voltage range	150 - 500V			
Max PV input voltage	500V			
Each MPPT input current	13A	13A	14A	14A
AC output(on grid)				
Rated AC output	120/240V 7.6KVA	120/240V 9KVA	120/240V 10KVA	120/240V 11.4KVA
AC output voltage	110-120/220-240V split phase, 1Ø, 230 1 phase			
AC output frequency	50/60Hz (45 to 54.9Hz / 55 to 65Hz)			
Max output current	32A	37.5A	41.7A	47.5A
AC reverse charging	Yes			
Power factor	0.8leading...0.8lagging			
THDI	< 2%			
Backup AC output				
Rated Backup output power	7.6KVA	9KVA	10KVA	11.4KVA
Max backup output power	9.5kVA 60S/ 11.4KVA 1S	11.25kVA 60S/ 13.5KVA 1S	12.5kVA 60S/ 15KVA 1S	14.25kVA 60S/ 17.1KVA 1S
Backup AC output voltage	110-120/220-240 split phase, 1Ø, 230 1 phase			
AC Frequency	50/60Hz			
Output THDI	< 2%			
Battery				
Max charge&discharge current	80 A / 80 A	62.5A/62.5A	69.5A/69.5A	79A/79A
Battery voltage range	96V~336V	150V~336V	150V~336V	150V~336V
Battery capacity range	6.6 to 66 kWh			
Battery type	Lithium/Lead-acid			
Communication	CAN,RS485			
Efficiency				
Max efficiency	≥98.2%			
CEC efficiency	≥97.2%			
Protection				
Complete Protection	Ground protection;AFCl protection;islanding protection;DC disconnect detection;Battery Reverse protection;Battery charge and discharge protection;insulation testing;GFCI;DC&AC anti-thunder;Overvoltage and under-voltage protections;AC&DC over-current protection;AC short-circuit current protection;overheating protection			
General Data				
AC and backup output conduit size	25.4mm			
PV input conduit size	25.4mm			
Battery input conduit size	34.5mm			
Operation Temperature range	-25 ~ +60°C			
environment humidity	0-95%			
Altitude	0~4000M (Derating when over 2000m)			
IP Grade	IP65			
Weight	30kg			
Dimension (W x H x D)	530x 660 x 200mm			
Cooling	Natural cooling			
Noise emission(dB)	<25dB	<29dB	<29dB	<29dB
Display	LCD			
Communication	Modbus, RS485, WIFI,4G			
Self-consumption at night	< 2.5 W (with battery enabling < 5 W)			
No transformer	YES			
Safety	UL1741SA all options, UL1699B, CSA 22.2			
EMC	FCC Part 15 ClassB			