

Hybrid HBI® PV INVERTER

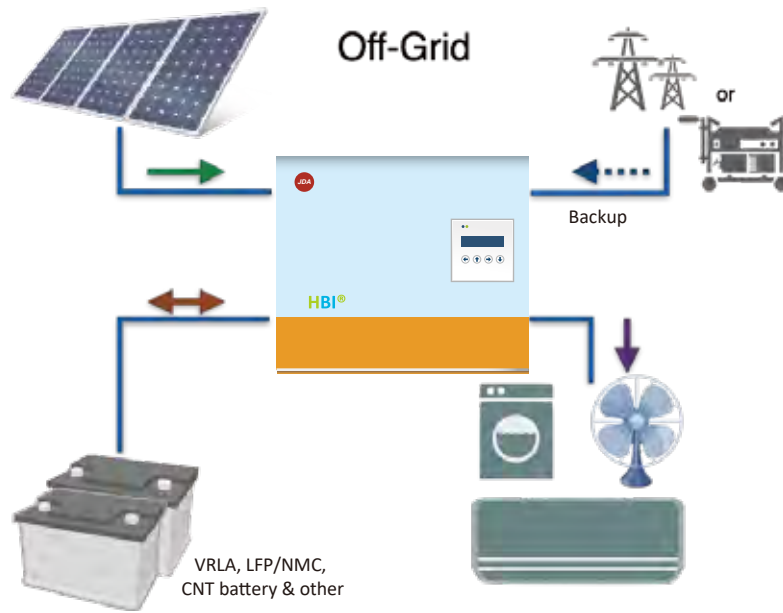
Standalone

Economically powerful solution for Photovoltaic and Storage

FEATURES

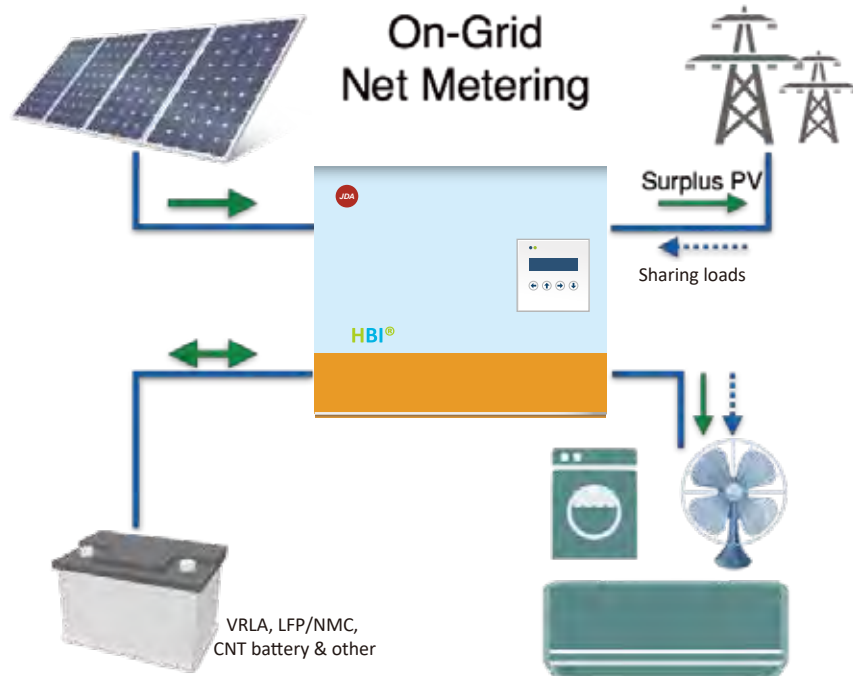
- Best CP value
- All-in-One
- 96% Conversion Efficiency
- Standalone/Grid Interactive
- 60A Charging Current
- 200% Overload
- Wall or 19" mount optional
- Net-metering & Self-use
- Operation without Battery
- UPS Function
- VRLA, LFP/NMC, CNT Batteries & Others
- High Temp. & Humidity
- Parallel Operations
- Cloud Monitoring (Optional)

Operation Modes



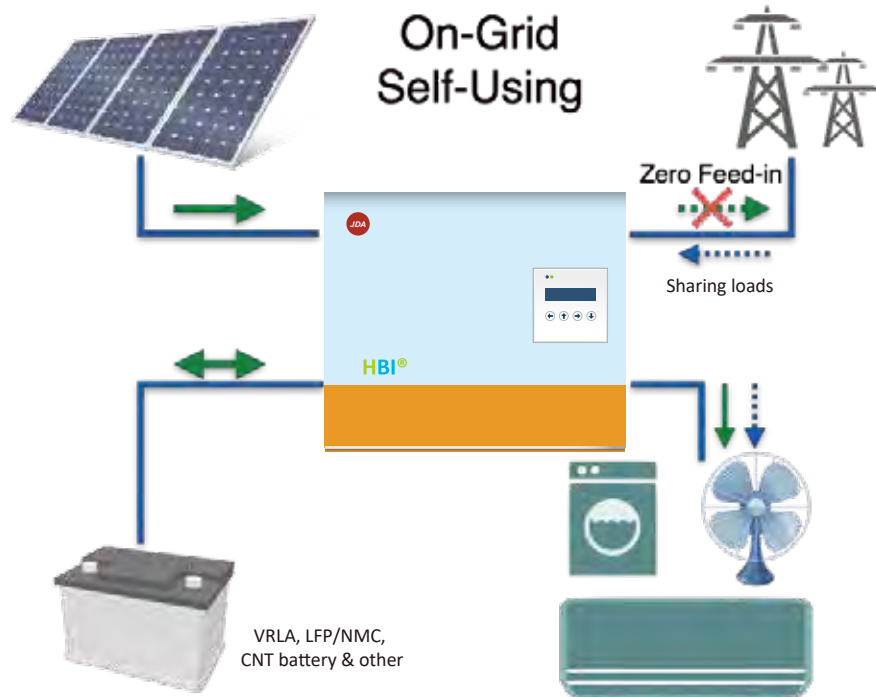
Operations

- AC grid or genset acts as a backup source
- Inverter supplies loads from PV and/or batteries
- Surplus PV power charges batteries
- Loads will be switched to backup input automatically while needed



Operations

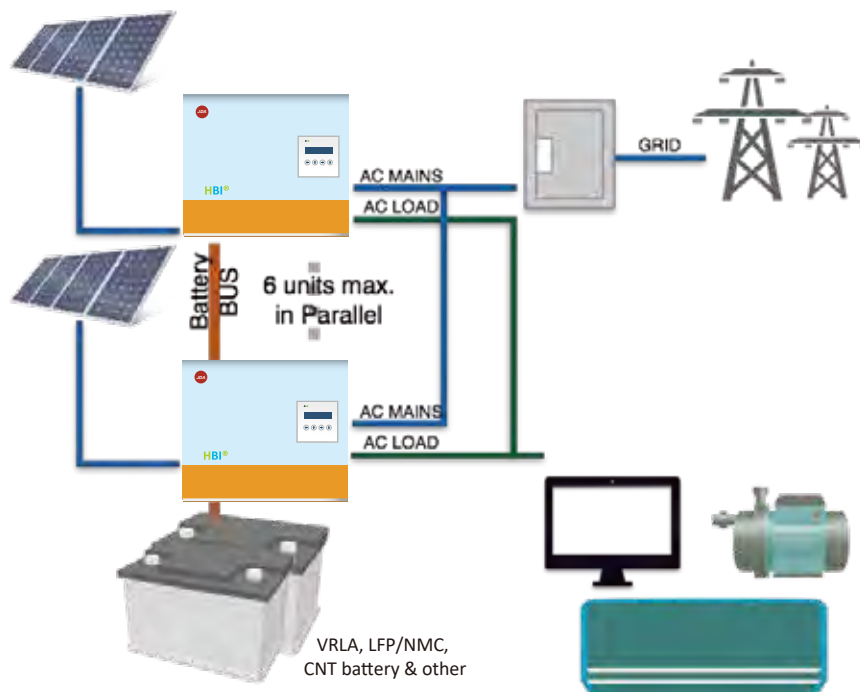
- Inverter output is physically connected to grid AC
- Inverter supplies loads from PV and/or batteries
- Extra PV power charges batteries and/or feeds grid
- Inverter and grid AC power loads together



Operations

- Inverter output is physically connected to grid AC
- Inverter supplies loads from PV and/or batteries
- Extra PV power charges batteries
- Zero feeding to grid
- Inverter and grid AC power loads together

Multi-unit System



Features

- Up to 6 units in parallel for increasing system capacity
- Inverters share same battery bank
- Inverters power common loads
- Off-grid or on-grid mode

Specifications

Model		HBI-3000-E-xx*	HBI-5000-E-xx*	HBI-5500-E-xx*
Input (PV)		Unit		
Max. PV Power	W _P	3000	5000	5500
MPPT Range ¹	V	150 ~ 450	150 ~ 450	120 ~ 450
Max. DC Voltage	V	500	500	500
Max. Current	A	10	20	2/2*13
Input (AC)		Unit		
Nominal Voltage, Frequency	V/Hz	230, 50/60		
Maximum Current	A	15	25	23.9
Battery				
Nominal Voltage	V	48	48	48
Max. Charging I Current	A	40,60	60,100	60,120
Output (AC)				
Nominal Power	W/VA	2400/3000	4000/5000	4000/5500
Nominal Voltage, Frequency	V/Hz	120, 50/60 230, 50/60		
Over -Load Capacity	%	200		
Waveform		Pure Sinusoidal		
Regulation (Linear Load)	%	± 2		
General				
Temperature Range ²	°C	-20 ~ 55		
Environment		Indoor		
Cooling		Forced Air -Cooling		
Humidity	%	0~95, non-condensing		
Battery Type		VRLA or LiFePO ⁴		
UPS function		Yes. Transfer time < 4mS ³		
Parallel Operation		No	Yes	No
Interface & Mechanical				
Display		16 x 2 Text Display		

Note: 1. Input power may be reduced for VPV < 265V 2. AC power may need to be reduced for T > 40°C 3. Valid for single unit operation 4. Design to meet 5. Specifications are subject to change without prior notice
*stanealone -SA.