UrVOLT

Creating **Your** Reliable **VOLT**

HYBRID ECO™ PV INVERTER

Economically powerful solution for Photovoltaic and Storage

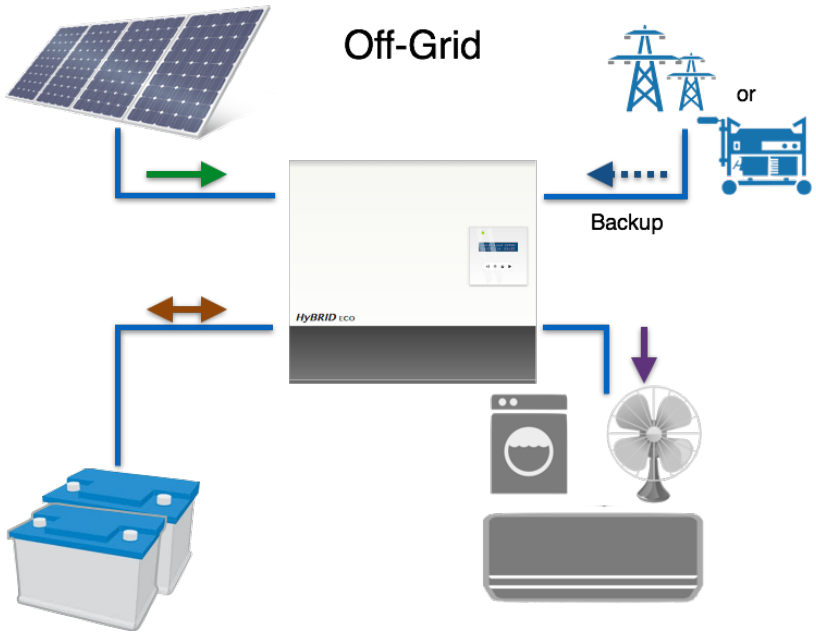
FEATURES

- Best CP value
- All-in-One
- 96% Conversion Efficiency
- Standalone/Grid Interactive
- 60A Charging Current
- 200% Overload
- Net-metering & Self-use
- Operation without Battery*NEW*
- UPS Function*NEW*
- VRLA & $LiFePO_4$ Batteries
- High Temp. & Humidity
- Parallel Operations
- Cloud Monitoring (Optional)
- iOS & Android APP

CE

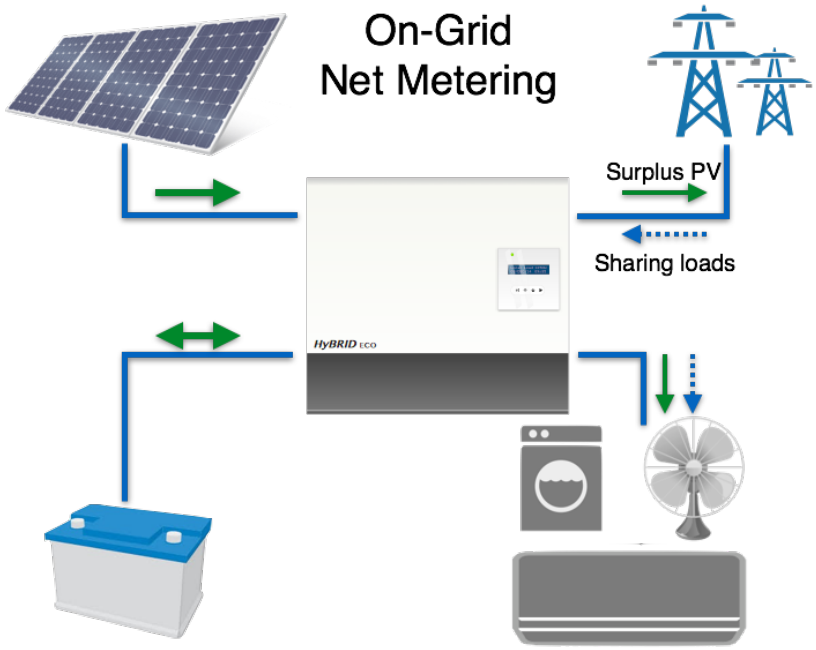
V2.0EN 2018.06

Operation Modes



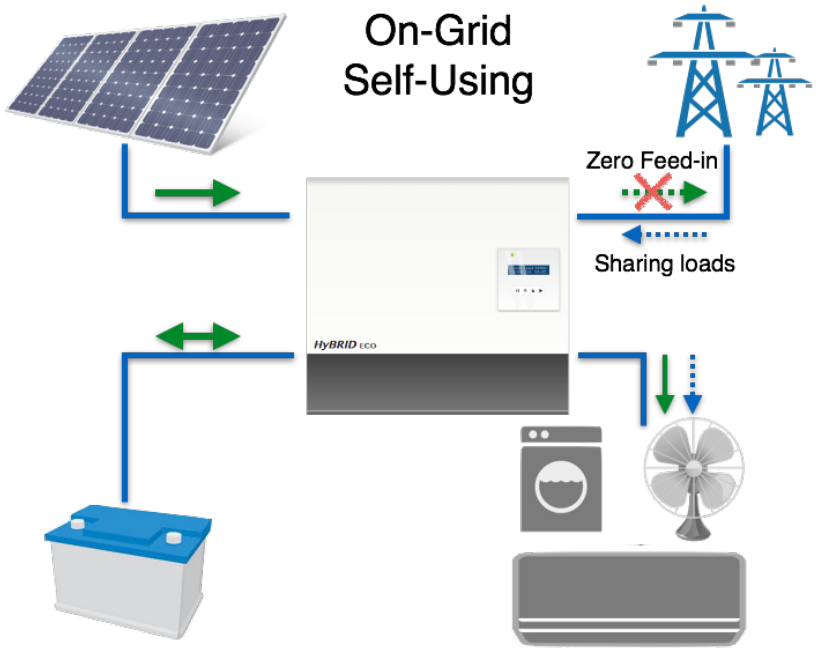
Operations

- 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

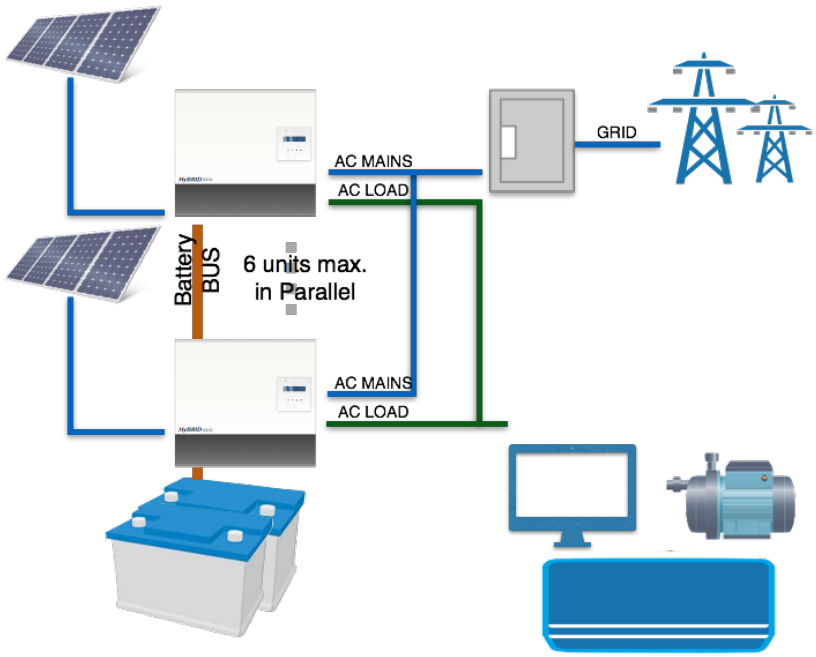
- Inverter output is physically connected to grid AC
- Inverter supplies loads from PV and/or batteries
- Extra PV power charges batteries and/or feeds grid
- Inverter and grid AC power loads together



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		PH-3000E-D	PH-5000E-D
Input (PV)	Unit		
Max. PV Power	W_P	3000	5000
MPPT Range[1]	V	150 ~ 450	150 ~ 450
Max. DC Voltage	V	500	500
Max. Current	A	10	20
Input (AC)	Unit		
Nominal Voltage, Frequency	V/Hz	230, 50/60	
Maximum Current	A	15	25
Battery			
Nominal Voltage	V	48	48
Max. Charging I Current	A	40	60
Output (AC)			
Nominal Power	W/VA	2400/3000	4000/5000
Nominal Voltage, Frequency	V/Hz	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
Interface & Mechanical			
Display		16 x 2 Text Display	
Communication Interface		RS485, USB and optional CloudVOLT™ monitoring	
Dimension (W / H / D)	mm	425/388/120	425/388/120
Weight	kg	12	14
Regulation[4]			
Safety		IEC 62109-1 & IEC 62109-2	
EMC		IEC/EN 61000-3-2 IEC/EN 61000-3-3	IEC/EN 61000-3-11 IEC/EN 61000-3-12
		IEC/EN 61000-6-2, IEC/EN 61000-6-4	
Grid Monitoring		VDE 0126-1-1/A1, IEEE 519 CEA (2013), IEC 61727, IEC 62116	

Note: 1. Input power may be reduced for V_{PV} <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

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