



# HOMESYNC™

**Total Home Energy Management**

[www.powersyncenergy.com](http://www.powersyncenergy.com)

## INTELLIGENT CONTROLS

- Built-in energy management system with multi-mode operations for self-consumption, time-of-use, smart load management, energy scheduling, external control and off-grid
- Real uninterruptible power supply, < 20ms switching time
- Multi-point real time monitoring with weather forecasting
- Communication Interface with WiFi (standard), 4G (optional), Meter-RS485, EMS-RS485(sunspec)
- Adaptive SOC management
- Pack level battery management with active balancing during charging and discharging

## SIMPLE DESIGN

- All-in-one design including the battery, inverter and EMS
- Modular design and quick connectors simplifies installation
- 15kWh – 160kWh scalable energy storage
- 12kW – 48kW scalable power
- System can be expanded at a later time
- Floor or wall mounted
- Indoor or outdoor rated (NEMA Type 3R)

## SAFE

- Physical and electrical dual isolation
- Modular fire protection
- AFCI and RSD function integration
- UL9540, UL9540A, UL1973, UL60730, IEC 62040-1, CFR 47, FCC Part 15 Class B, UL1699B, UL1998, UL1741 SB, CDSA 22.2, CEC, IEEE1547, IEEE1547.1, IEEE2030.5, UN38.3



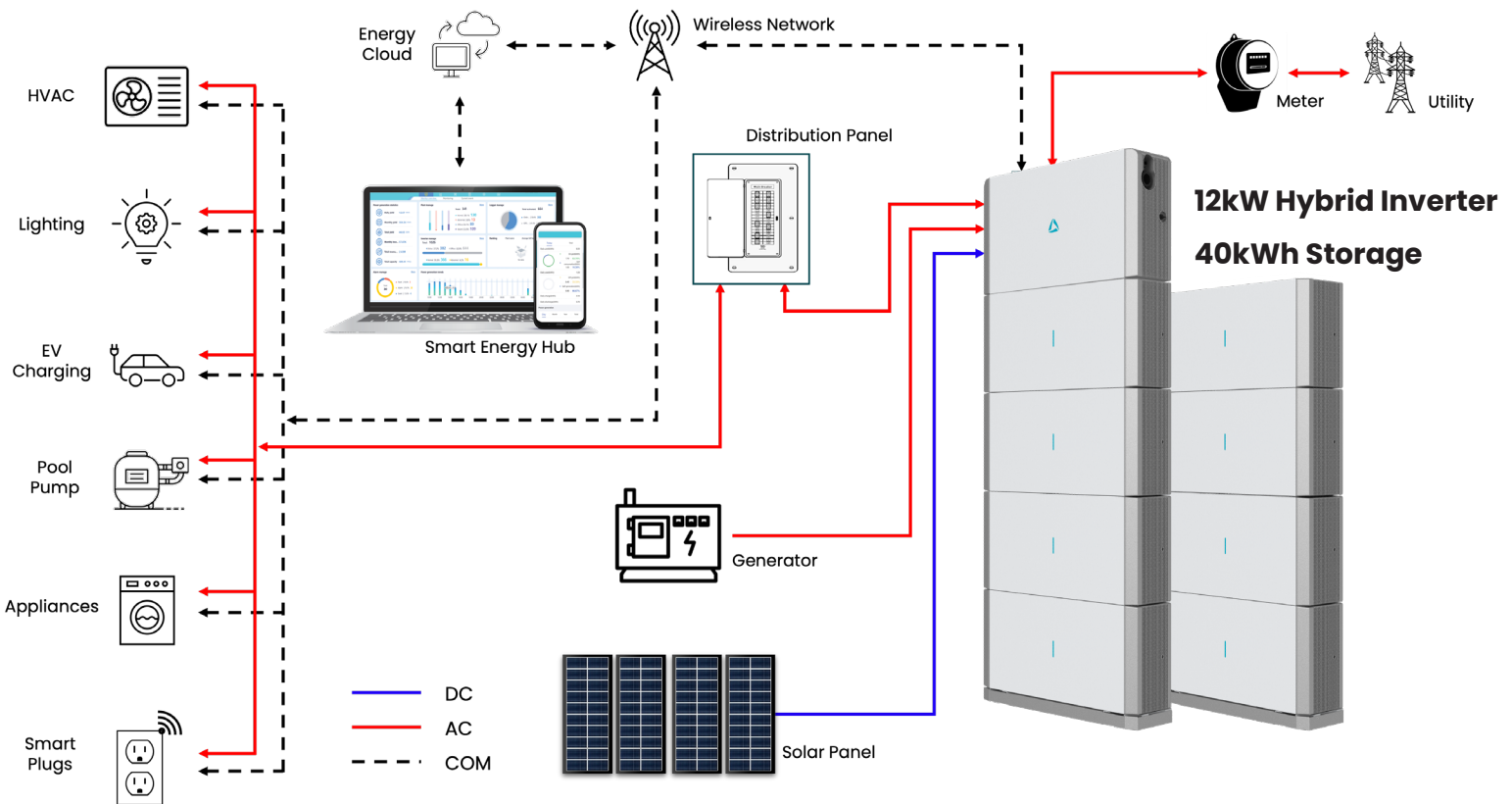
**12kW Hybrid Inverter  
20kWh Storage**

**ADVANCED AUTOMATION AND ENERGY MANAGEMENT**

HOMESYNC™ Total Home Energy Management is an all in one battery, inverter and energy management system that controls, monitors and distributes power collected from any source including solar, generator or the grid. Energy is delivered to manageable loads and also passed along to the batteries where it is stored and used according to the mode selected by the user. No more cumbersome looking, difficult installs! With HOMESYNC™ everything is included in a beautiful clean design that can be mounted on the floor, wall, indoor or outdoor.



Intelligent monitoring of the energy, collected, stored and distributed.



## SYSTEM SPECIFICATIONS

AC INPUT / OUTPUT (ON-GRID)	
Rated AC Output Voltage:	120/240/208 Split Phase
Rated Output Power:	12kW
Max Output Power:	24kW (10 sec.)
Max Output Current:	50A
Grid Voltage Range:	211.2-264VAC
Rated Grid Frequency:	60Hz
Grid Frequency Range:	55-65Hz
Power Factor: >.	99 (rated power)
Adjustable Power Factor:	0.8 (leading) ~ 0.8 (lagging)
THDi:	<3% (rated power)
Max. Supply Fault Current:	5kA
AC OUTPUT (BACK-UP)	
Rated AC Output Voltage:	120/240/208 Split Phase
Rated Output Power:	12kW
Peak Output Power:	24kW (10 sec.)
Peak Output Current:	100A (10 sec.)
Rated Output Frequency:	60Hz
Switch Time:	<20ms (one inverter), <300ms (multiple inverters)
Max. Supply Fault Current:	5kA
Support Unbalanced Loads:	Yes

## SCALABLE ARCHITECTURE



INVERTER MODULE PV SPECIFICATIONS	
Max. PV Input Power:	18kW
Max. PV Input Voltage:	500VDC
No. of MPPT:	4
No. of PV Strings per MPPT:	2
Max. PV Input Current:	30A
Max. Short Circuit:	37.5A
MPPT Voltage Range:	100VDC-500VDC
Starting Voltage:	125VDC
DC (PV) Switch:	Yes
BATTERY MODULE SPECIFICATIONS	
Technology:	Lithium Iron Phosphate (LFP/LiFePO4)
Energy/Capacity:	5kWh
Rated Power:	2.5kW
Rated Voltage:	380VDC
INVERTER MODULE GENERATOR SPECIFICATIONS	
Rated AC Current:	50A
Rated AC Output Power:	12kW
Max. Supply Fault Current:	5kA
GENERAL	
Inverter Weight:	35kg/77.16lb (including side plates)
Inverter Dimension:	800*450*200mm (W*H*D) 31.49*17.72*7.87in (including side plates)
Battery Weight:	49kg/108.02lb
Battery Dimensions:	800 x 380 x 200mm (W*H*D) 31.49 x 14.6 x 9.37in
Enclosure Type	NEMA Type 3R, IP-65
CERTIFICATIONS	
Certification	UL9540, CFR 47, FCC Part 15, Subpart B, UL1741SB, CSA C22.2, IEEE1547, IEEE1547.1, UL1699B, UL1998, CEC, IEEE 2030.5