

HOMESYNC™ Total Home Energy Management

www.powersyncenergy.com

HOMESYNC™

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 charing 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

www.powersyncenergy.com (877) 459-4591 © 2018-2023 POWERSYNC Energy Solutions, LLC. All rights reserved. 04/18/23



12kW Hybrid Inverter 20kWh Storage

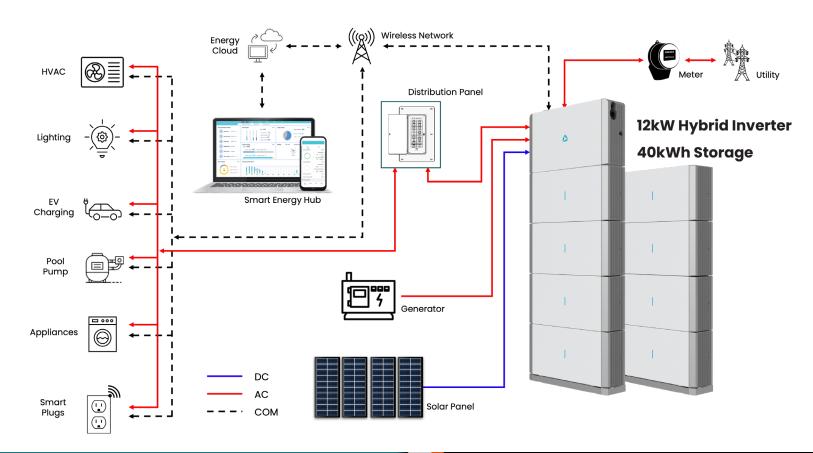
HOMESYNC™

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.

Power generation statistics	Plant manage	More	Logger manage	More	
Daily yield 12.67 MMh	Total: 341			Total activated: 664	
Monthly yield 504.54 MM	Abnormal 3.8% 13		Onin_ 58.4% 388 Onin_ 41.5% 22		
	• Offine 26.1% 89 • Vacant 32.0% 109				
Total yield 44.65 GMh			Ranking Plant name		
Monthly inco 57.87K	Inverter manage Total: 1026	More	Ranking Plant name	Average full los Today	Total
Total revenu., 2.43M	• Online 37.2% 382 + Office 62.8% 644			Daily yield(kWh)	
		- 1			 On gr 7,20
Total capacity 489.41 MMp	• Normal 95.8% 366 • Abnormal 4.2% 16	•		No data	consumpti 1.50
Alarm manage Mars	Power generation trends			Daily used(kWh)	
					• Off g
• Fault 10.0% 3 Total	(E)(A + A)				0.40 Self generation
30 • Aarm 76.76 23	EEDAL + AL			\sim	0.80
• Event [13,3% 4	10:00 12:00 34:00 16:00 18:00	20:00	22:00 00:00 02:00	04:00 06 Daily charge(kWh)	
				Daily discharge(kW	nþ
				Power generation	
		-		Day Mord	Year

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



www.powersyncenergy.com (877) 459-4591 © 2018-2023 POWERSYNC Energy Solutions, LLC. All rights reserved. 04/18/23



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, IEEE1547.1UL1699B, UL1998, CEC, IEEE 2030.5				

www.powersyncenergy.com (877) 459-4591 © 2018-2023 POWERSYNC Energy Solutions, LLC. All rights reserved. 04/18/23