

## Smart Residential Energy Storage Solutions

Manage energy intelligently and effectively



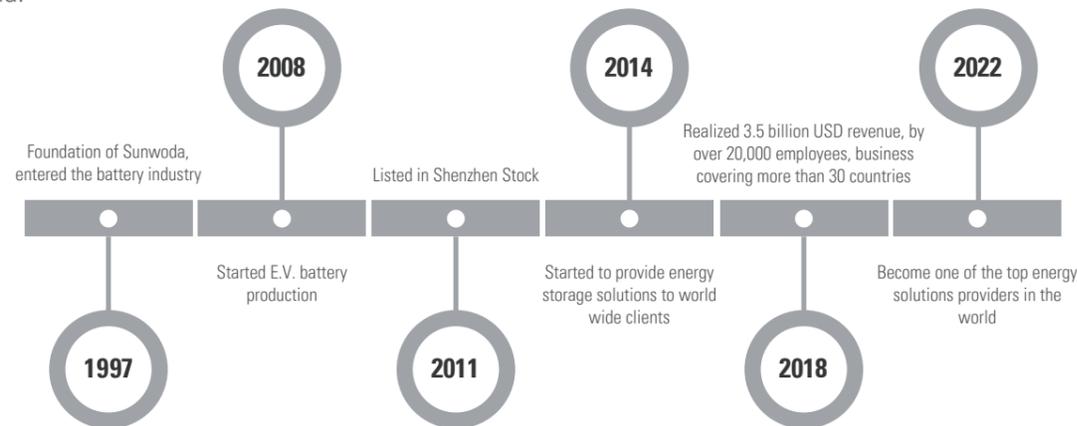
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## About Sunwoda Energy

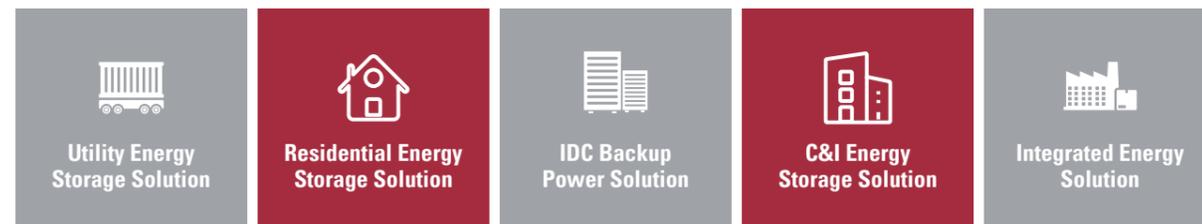
Sunwoda Energy Solution Company Limited is a 100% subsidiary of Sunwoda Electronic Company Limited. Founded in 1997 in Shenzhen and listed in stock since 2011 (Code: SZ 300207), Sunwoda is one of the largest lithium battery manufacturer in the world. Passionate in the battery industry, we are fast growing, in the year of 2018, we have recorded a turnover of 3.5 billion dollars with a year-on-year growth rate of 34%, contributed by over 20,000 employees, business expanded to **Electric Vehicle Battery, Energy Solution, Connected device, Automation** and **Battery Laboratory**, covering all around the world.



In 2014, carrying the mission of driving to a sustainable future, we started our activity in the renewable energy industry. From one single cell to large scale battery pack cluster, we offer standard and custom solutions to meet to energy demands in: **Resident/Household, Commercial & Industry Facilities, Communities, Data centers** and **Utility Grid**.

Over 20 years' expertise and experiences in battery system engineering manufacturing, we are your strong partner and dedicated to provide tailor-made, cost-efficient and reliable energy solution for your project!

## Energy Solutions



## Product Lines



## Residential Energy Storage Solution

Residential energy storage system is one kind of green, efficient, advanced and safe energy supplying system, which saves home electricity cost by storing energy from off-peak hours and surplus clean energy generated from photovoltaic system, and powering the household during peak hours or blackout.

Integrated with lithium-ion battery energy storage system and home energy management system, the solution is expandable on demand and has a variety of combinations. Flexible, efficient and customized products and services, it is friendly to home users to build a clean, independent and economic micro-grid.



## Product

Engineered with great flexibility, the B4850 modules can easily achieve 38.4 kWh system capacity, ideal for small but various energy demands.

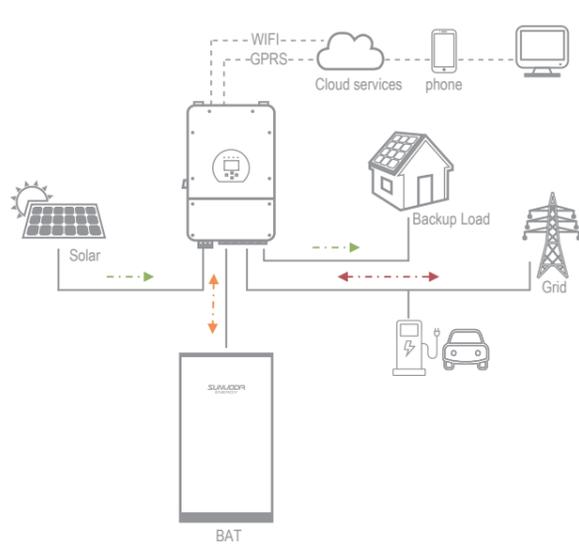
48V module	48V battery cabinet
	
2.4kWh	9.6kWh

Model	H4850M-P02	NEO-9.6
Nominal voltage (V)	48	
Voltage range (V)	42 ~ 52	
Nominal energy (kWh)	2.4	9.6
Capacity (Ah)	50	200
Parallel connection	Max. 16 packs	Max. 4 cabinet
Cell chemistry	LiFePo4	
Cooling concept	Natural convection	
Max. charge current (A)	40	100
Max. discharge current (A)	50	120
Communication	RS485/CAN2.0	
Operating temperature (°C)	-10 ~ 45°C	
Certification	IEC62619/UL1973, UN38.3	
Dimension (W*H*D, mm)	482 x 91 x 433	570 x 1150 x 285
Weight (kg)	24	140

## DAY PROTECTING

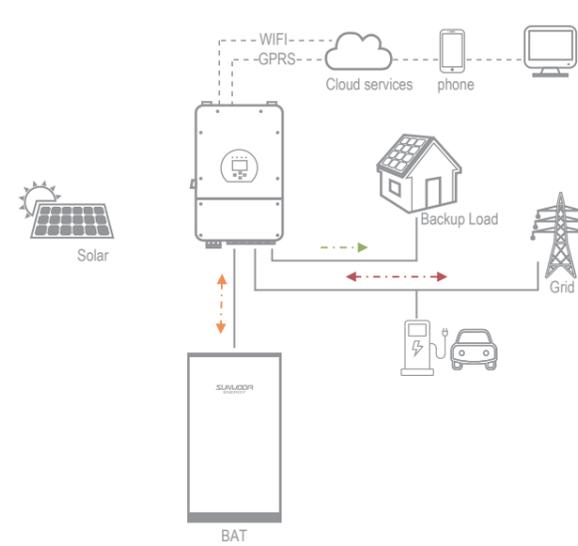
### 1, The day with solar energy

The load is powered by solar energy, batteries and grid with guaranteed protection. Priority to solar energy. Overproduction can be injected in the grid.



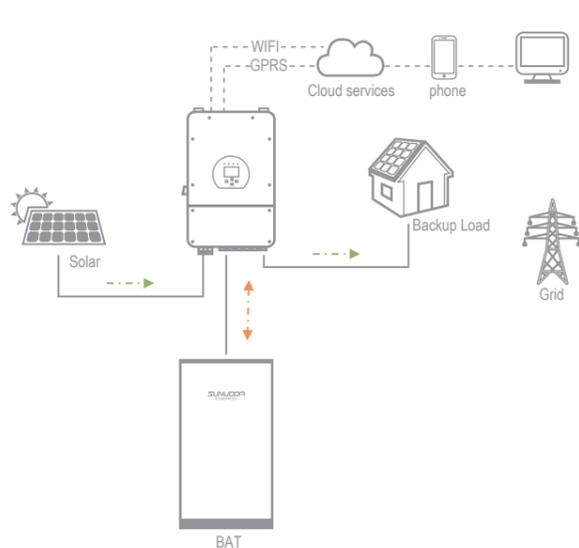
### 2, In the evening

During the evening, the energy stored in the batteries will be used for your energy needs. You are no longer totally dependent from your energy supplier.



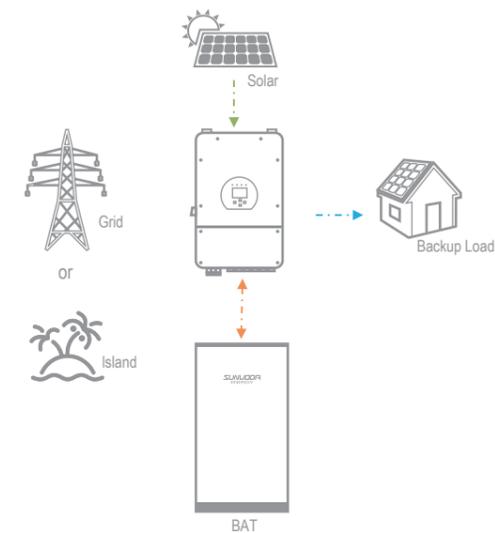
### 3, The day, without grid

Even during a power failure, the protected load is always powered by the combination of solar energy + batteries.



### 4, Power failure

To guarantee a total protection, the energy stored in the batteries will be used to supply the connected UPS load.



## RESS Solution



### NEO Single phase series

Model	NEO-367S	NEO-5010S	NEO-8020S
Max. PV Input power (W)	4680	6500	10400
MPPT range (V)	125-425,Max. 500		
AC rated power (W,@25 °C)	3600	5000	8000
Output voltage (Vac, Hz)	230, 50/60		
System energy (Wh)	7200	9600	19200
Max. energy (Wh)	38400		
Battery voltage (V)	48,(Inverter:40-60;BMS:42-51.5)		
IP level	IP55 to Battery cabinet,IP65 to PCS		
Cycle life	≥6000 cycles,80%DOD,@25 °C ,0.5C,70%EoL		
Operating mode	On grid/off grid, switch time <20ms		
Dimension (W*H*D, mm)	580*330*208(3.6/5kW PCS);680*233*420( 8kW PCS);570*1150*285 (Battery cabinet)		
Weight	20.5kg(3.6kW/5kW PCS),32kg(8kW PCS),140kg(9.6kWh Battery cabinet)		
Monitoring	APP/Web		
BMS Communication	Rs485 /CAN		
Certificate	UN38.3, IEC62619 (Battery); VDE0126,AS4777, IEC62109-1,IEC62109-2,EN61000 etc. (Inverter).		

### NEO Three phases series

Model	NEO-8015T	NEO-1020T	NEO-1220T
Max. PV Input power (W)	10400	13000	15600
MPPT range (V)	Model	200-650,Max. 800	Model
AC rated power (W,@25 °C)	8000	10000	12000
Output voltage (Vac, Hz)	400, 50/60		
System energy (Wh)	14400	19200	19200
Max. energy (Wh)	Max. 38400		
Battery voltage (V)	48,(Inverter:40-60;BMS:42-51.5)		
IP level	IP55 to Battery cabinet,IP65 to PCS		
Cycle life	≥6000 cycles,80%DOD,@25 °C ,0.5C,70%EoL		
Operating mode	On grid/off grid, switch time <20ms		
Dimension (W*H*D, mm)	422*658*281 (PCS);570*1150*285 (Battery cabinet)		
Weight (kg)	36.8(PCS),140(9.6kWh/ Battery cabinet)		
Monitoring	APP/Web		
BMS Communication	Rs485 /CAN		
Certificate	UN38.3, IEC62619 (Battery); VDE4105, IEC62109-1,IEC62109-2,EN61000 etc. (Inverter).		

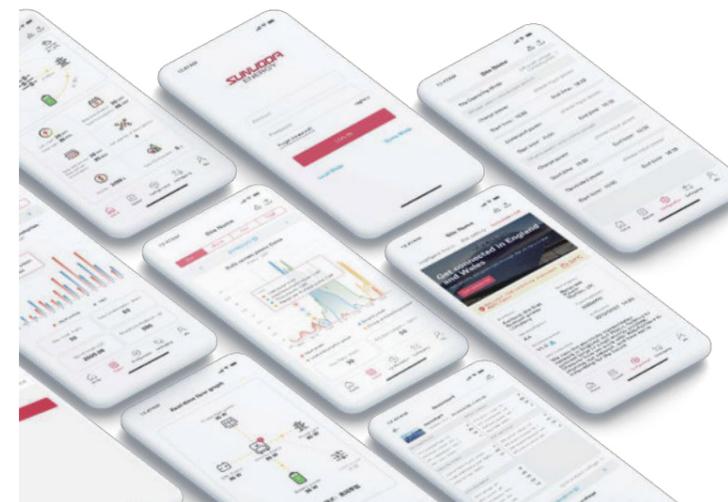
## RESS All-in-one Solution



### NEO All-In-One series

Model	NEO-5010A	NEO-8015A	NEO-8020A
Max. PV Input power (W)	6500	10400	10400
MPPT range (V)	125-425,Max. 500		
AC rated power (W,@25 °C)	5000	8000	8000
Output voltage (Vac, Hz)	230, 50/60		
System energy (Wh)	9600	14400	19200
Battery voltage (V)	48,(Inverter:40-60;BMS:42-51.5)		
IP level	IP43		
Cycle life	≥6000 cycles,80%DOD,@25 °C ,0.5C,70%EoL		
Operating mode	On grid/off grid, switch time <20ms		
Dimension (W*H*D, mm)	650*1500*556	656*1734*556	650*1950*556
Weight (kg)	240	305	365
Monitoring	APP/Web		
BMS Communication	Rs485 /CAN		
Certificate	UN38.3, IEC62619 (Battery); VDE0126,AS4777, IEC62109-1,IEC62109-2,EN61000 etc. (Inverter).		

## Monitor Energy Flows in Real Time



- Smart and user-friendly APP
- Available for Android, iOS and Web
- Customize your energy needs
- Manage energy production/storage/consumption and on grid/off grid anytime from anywhere