



NATIONAL BATTERY SUPPLY



☎ 844-539-2555 (Toll Free)

✉ Sales@NationalBatterySupply.com

📍 5416 W Sligh Ave. Suite 106 Tampa FL. 33634

OEM private label high energy density
and deep cycle battery manufacture.



NBS

NATIONAL BATTERY SUPPLY



NBS
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Make solar Valuable



MILESTONES

2002

NBS Group established,
the main business is
Service Equipment

2008

Help province
government PV power
station project

2005

NBS Solar was founded,
built first solar cell and
solar panel factory in
YanCheng city

Awarded National High
Technology Environmen-
tal Protection Company

2011

2023

To be continued

2017

Cambodia Factory
and New Jersey
warehouse
Founded

Investment of Vietnam
factory for fast grow
NA market

2022

Jiangsu Factory
Established, Expand
Capacity to 400MW

2015

National Battery Supply adheres to quality-oriented, and continuous innovation in battery storage and charging capacity. We are the peak supplier for the industry of battery manufacture for electric vehicle charging, and consumer grade batteries for electronics manufacturers. As a supplier with more than two decades of experience, we can bring what our competitors can not offer. With National Battery Supply, you get high energy density and long lasting batteries and charging solutions. Thanks to our positive electrode and vacuum immersion techniques, we ensure efficient charging, discharging and long lasting storage products with long life spans. Our two ISO 9001:2004 – and ISO 14001:2004-certified plants guarantee a monthly capacity of 25 million disposable batteries and 3.5 million rechargeable batteries. Every product in our supply line is checked by over 40 QC staff members. We seek to exceed your production and quality requirements for any types of solutions. Each product comes with CE, UL and RoHS certification for qualification in international distribution.

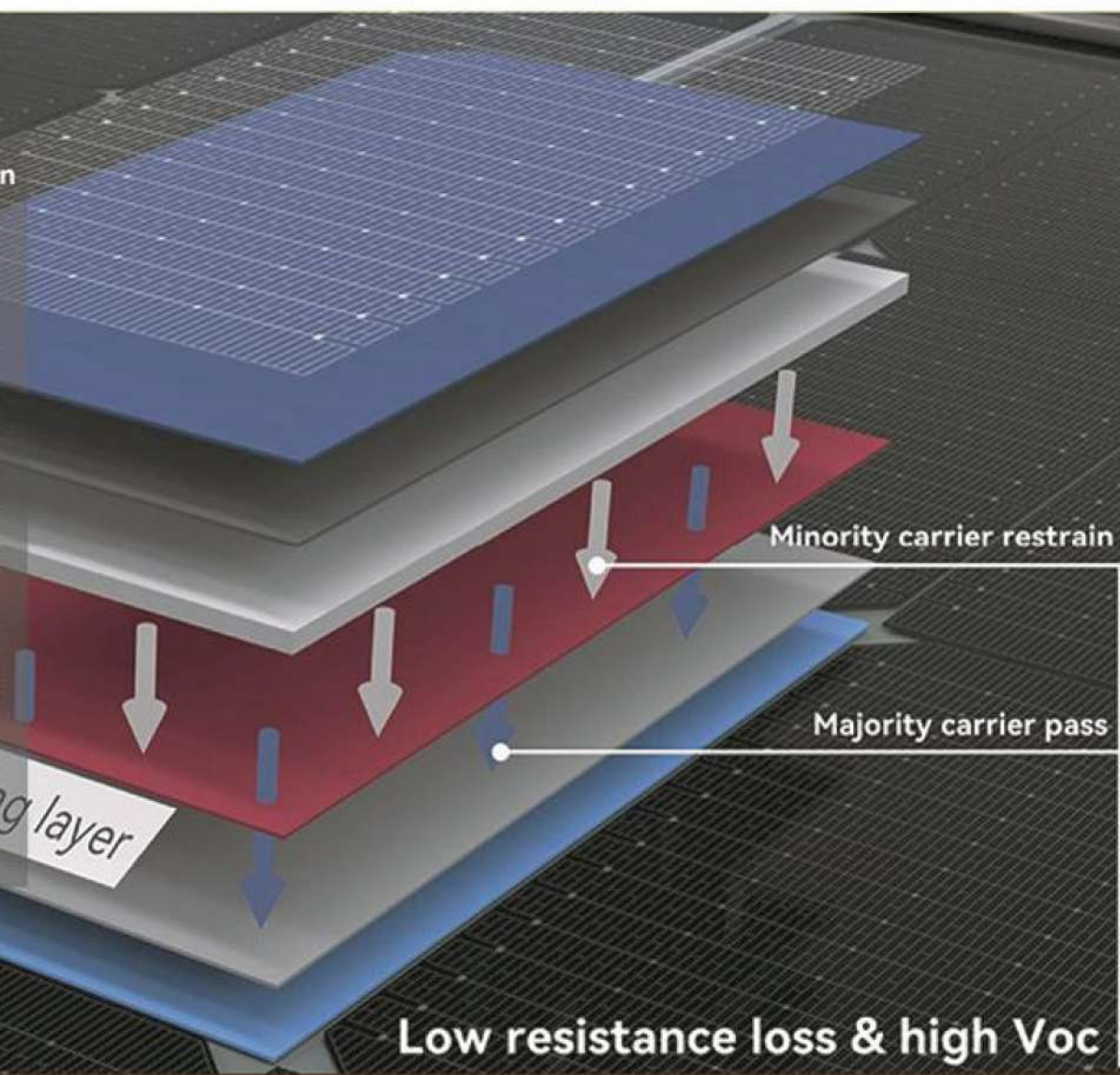


High Efficiency Solar Panels
Manufacturer New TOPCon technology

LEADING TECHNOLOGY: N-Type TOPCon

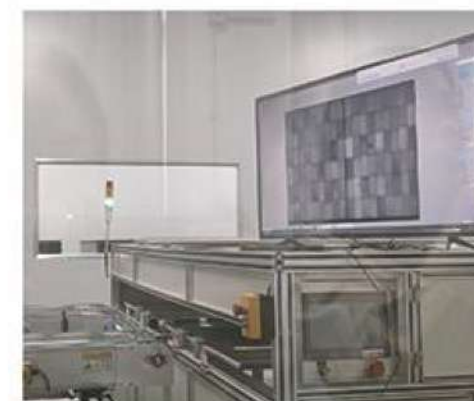
Since NBS entered the solar energy industry, it has been constantly updating its production lines and continuing to help customers achieve their goals with strong innovation capabilities. These cell advances are accomplished rather easily on PERC cells when compared to brand new manufacturing processes. PERC adds a passivated film to the back of ordinary solar cells to absorb more light that may have passed the initial cell surface. TOPCon takes that same PERC film and adds an ultra-thin oxide layer on top as another barrier to contain unabsorbed light.

The theoretical efficiency limit of ordinary PERC technology is about 24%, indicating how much solar energy the panel can convert into usable electricity, so in order to continue to advance, NBS uses a more advanced "passivated contact technology" - N-type double-sided TOPCon cell efficiency reaches 25.21%, the highest conversion rate can reach 25.4%.



Multiple production line

Vietnam, Cambodia, China
Highly automated new equipments
Advanced manufacturing process
Vertically integrated industrial chain



24.0% +
Cell Efficiency

100 +
patents

80 +
Global R&D
Engineers

800 +
MW Annual
Capacity

30 years
POWER WARRANTY

12 years
PRODUCT WARRANTY

The best full black modules series

410-430W Mono FULL BLACK
108 Half-Cell Layout
M10/182mm N-TOPCon Cell



N-TOPCon Cell Technology



Full Black Appearance for Aesthetic Effect



SMBB Half Cut Cell Technology



Excellent Anti-PID Low LID Performance



Less Hot Spot Shading Effects



Higher Power Output Lower BOS&LCOE



Half-cut & MBB technology
For 3% more Power, Lower internal current , lower power loss

Excellent weak light performance
More power output in weak light condition

Lower the risk of hot spot
Special design with lower hot spot temperature

Lower LCOE
Higher Power Generation , Lower LCOE.

High quality guarantee
20 YEARS Product quality and process guarantee & 25 YEARS Linear power guarantee

Low power degradation
2% First year power degradation, and 0.55% Annual degradation over 25 years

1500V DC
High system voltage of J-box and glasses, reduce PV System cost.

UP395W-415W-54HB
Maximum Power (Pmax/W) : 395 400 405 410 415
Module Efficiency (η%) : 20.23 20.48 20.74 21 21.25
Dimensions/Weight : 1724*1134*30mm / 22kg
Number of cells : 108(6*18)

UP580W-610W-60H
Maximum Power (Pmax/W) : 590 595 600 605 610
Module Efficiency (η%) : 20.8 21.0 21.2 21.4 21.6
Dimensions/Weight : 2712*1303*35mm / 30.5kg
Number of cells : 120(6*20)

UP655W-675W-66H
Maximum Power (Pmax/W) : 655 660 665 670 675
Module Efficiency (η%) : 21.1 21.2 21.4 21.6 21.7
Dimensions/Weight : 2384*1303*35mm / 33.2kg
Number of cells : 132(6*22)



OEM
&
ODM

3-12KW Residential Hybrid Solar Inverter

- Compatible with lead-acid and lithium-ion batteries
- Battery reverse connection protection, anti-power control function
- Input power source priority can be set by users
- IP65 protection, Low noise <35dB

Technical specification	R8KH3	R10KH3	R12KH3
Input (PV)			
Max.power(kW)	10.4	13	15.6
Max. DC voltage(V)		1,000	
MPPT voltage range(V)		180~850	
Max.input current of single MPPT(A)		12.5	
MPPT tracker/strings	2/1	2/1	2/1
AC output			
Rated output power(kVA)	8.8	11	13.2
Max. output current(A)	12.7	15.9	19.1
Grid voltage/range(V)		400/360~440	
Frequency (Hz)		50 /60	
Power factor		0.8lagging-0.8leading	
THDi		<3%	
AC output topology		3W+N+PE	
Battery			
Battery voltage range(V)		125~600	
Max. charging voltage(V)		600	
Full battery voltage(V)	210	270	250
Max. charge/discharge current(A)	40	40	50
Battery type		lithium /Lead-acid	
Communication Interface		CAN/RS485	
EPS output			
Rated power(kVA)	8.8	11	13.2
Rated output voltage(V)		400	
Max. output current(A)	12.7	15.9	19.1
Rated frequency(Hz)		50 /60	
Automatic switching time(ms)		<20	
THDu		<2%	
Overload capacity		110%, 30S/120%, 10S/150%, 0.02S	
General data			
Battery charge /discharge efficiency	96.6%	96.7%	96.8%
DC Max. efficiency	97.9%	98.2%	98.2%
Europe efficienc	97.2%	97.5%	97.5%
MPPT efficiency	99.5%	99.5%	99.5%
Ingress protection		IP65	
Noise emission(dB)		<35	
Operation temperature		-25°C~ 60°C	
Cooling		Natural	
Relative Humidity		0 ~95% (non-condensing)	
Altitude		2,000m (>2,000 Derating)	
DimensionsW * D * H(mm)		530*200*600	
Weight(kg)		29	
Isolation transformer		No	
Self-consumption(W)		<3	
Display and communication			
Display		LCD	
Interface:RS485/Wifi/4G/ CAN/DRM		Yes/ Opt/ Opt/ Yes/ Yes	
Safety standard		IEC/EN62109-1/-2, IEC/EN62477-1	
EMC		IEC/EN 61000-6-1, IEC/EN 61000-6-3	
On-grid		Europe : EN50549-1, Germany : VDE4105/0124 , UK : G99 , South Africa : NRS 097-2-1:2017	

Pure Sine Wave Inverter With E Display

MPPT Solar Charge Controller



This inverter offer superior quality true sine wave paower, it is designed to operate vari-ous of power tools and inductive loads, The AC output waveform is even better than the power supplied by your utility.

- Intelligent digital display
- Input & output fully isolated
- Very stable AC output, Low voltage drop
- Customized input voltage:
36V/60V/72V/96V/110VDC

Optional parts



Products Specification

Model	SSM-50-96	SSM-100-96	SSM-50-192	SSM-50-384	SSM-100-192	SSM-100-384
Rated Current	50A	100A	50A	50A	100A	100A
Rated System Voltage	96V	96V	192/216/240V	384V	192/216/240V	384V
Max PV Input Voltage	300V		450V	800V	450V	800V
MPPT Route Number	1	2	1		2	
Battery Type	lead acid battery/deep cycle battery/gel battery/ etc					
Charge Voltage	113.6V/227.2V/255.6V/284V/454.4V					
Charge Protection Voltag	120V/240V/270V/300V/480V					
Promote Recovery Voltag	105.6V/211.2V/237.6V/264V/422.4V					
Protection	over-voltage/under-voltage/over-temperature/PV&battery anti-reverse protection					
MPPT Efficiency	>99%					
Dimension(L*W*H)cm	31.5*25*10.8		46*33*14		53*41*16.2	
Meas(cm)	36.5*31*16.4		50.9*40.5*21.5		59.8*48.7*23.9	
N.W./Unit(kg)	4.5	5.6	13.5	15	22.6	26.5
G.W./Carton(kg)	5.2	6.3	15	16.5	24.6	28.5
Elevation	<5000m					
Humidity	5%-95%, No Condensation					
Communication	RS485(Optional)					



PRODUCT INTRODUCTION

LFP-Powerwall box, a Low-voltage lithium battery. With a scalable modular design, the capacity range can be expanded from 5.12kWh to 51.2kWh. The modules are connected by cables to support high-power work and are easy to install and maintain. Long life technology ensures more than 8000 cycles with 90% DOD.

Convenient

Wall mounted battery & compact design, ease of installation

Compatible

Compatible with multiple inverters, Multiple communication Interfaces RS232, RS485, CAN

Compliant

Ip21 Protection, indoor application

Scalable

Use of parallel connection, from 2 to 10 modules

Sufficient

High energy density, 110Wh/kg

Safe

Multiple protection LiFePO4 material, safe and long life



Family



Small store



Office



Church



5.12KWh Stacked Lithium Energy Storage Battery

Battery Products Specification

Single module capacity	5.12KWH				
Module number	1/PCS	2/PCS	3/PCS	4/PCS	5/PCS
Total capacity	5.12KWH	10.24KWH	15.36KWH	20.48KWH	25.6KWH
Standard voltage	51.2V				
Working voltage	43.2V-57.6V				
Standard discharge current	100A	200A	300A	400A	500A
Standard charge current	50A	100A	150A	200A	250A
Suggested DOD	80%				
Humidity	10-85%				
Installation	Stacked				
IP rating	IP20				
Communication	CAN/RS485/RS232(WiFi/bluetooth/4G optional)				
Product size/unit	620*550*480mm	620*550*760mm	620*550*1040mm	620*550*1320mm	620*550*1600mm
N.W./unit	50kg	80kg	120kg	150kg	190kg



OUTDOOR POWER STATION



HYBRID SOLAR SYSTEM

- Residential
- Commercial
- Easy Installation
- Professional Technician Support



RESIDENTIAL SOLAR ENERGY STORAGE SYSTEM *ONE STOP SERVICE*



Solar Panels



Solar Inverters



Energy Storage Battery



Mounting Bracket



Accessories



Professional
Technician Support

WELCOME TO NBS SOLAR

2002

20 years experience
since 2002

800MW

NBS Solar has provide
800MW capacity products annual

150+

NBS Solar had
exported products
to more than 150 countries

200+

NBS Solar has 200+
Global employees including
80 researchers and engineers

3 FACTORIES

NBS Solar has an office
area of 1500 square meters
and three location factories
in China, Vietnam and Cambodia



MAKE SOALR VAULABLE

As a rising star in the Solar industry, NBS plays an important role in sustainability. NBS Solar has always adhered to strict quality control to provide customers with better and higher quality products. We have also been committed to contributing to society with green energy and hope that NBS will have a lasting positive impact on humanity



WE LOOK FORWARD TO HEARING FROM **YOU!**

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