

***NOVACELL***

***NOVAPOWER***

# 新能源储能电动画册

## Nova Energy Storage&EV Catalog

SHENZHEN NOVA ENERGY CO.,LTD.

Web.: [www.NovaEnergyPower.com](http://www.NovaEnergyPower.com); Email: [service@NovaEnergyPower.com](mailto:service@NovaEnergyPower.com); Tel: +86-755-2105 6779

Add.: Block E, Tongchuang Industrial Park, Hongying Road, Xihu, Guangming District, Shenzhen, China 518106

# Novacell Cabinet series Lithium iron phosphate battery



Nova cabinet-type energy storage battery system is based on lithium iron phosphate batteries and is equipped with a high-performance, stable and reliable battery management system (BMS). The product adopts a standardized chassis installation method, which has the characteristics of green environmental protection, high energy density, long charge-discharge cycle life, good safety performance, good compatibility and operability, and is widely used in smart computer rooms, home energy storage power supplies, photovoltaic energy storage systems, etc.

## Features:

- ⊕ Long cycle life (6000 cycles), up to 10 years
- ⊕ Sophisticated appearance and ultra-light body
- ⊕ One-key switch machine, convenient operation, high efficiency and energy saving
- ⊕ High compatibility BMS, compatible with various brands of energy storage inverters
- ⊕ Support parallel capacity expansion, up to 16 parallel machines, address automatic acquisition, no manual operation
- ⊕ Multiple communication interfaces: RS232, RS485, CAN
- ⊕ Simple external connection, saving installation time and cost

## Parameters



| Model                       | 48V50Ah                             | 48V100Ah               | 48V150Ah               | 48V200Ah            |
|-----------------------------|-------------------------------------|------------------------|------------------------|---------------------|
| Nominal voltage             | 51.2V                               | 51.2V                  | 51.2V                  | 51.2V               |
| Nominal Capacity            | 50Ah                                | 100Ah                  | 150Ah                  | 200Ah               |
| BMS                         | 50A                                 | 100A                   | 150A                   | 200A                |
| Structure                   | 3.2v50Ah 16 Series                  | 3.2V100Ah 16 Series    | 3.2V150Ah 16 Series    | 3.2V100Ah 16 Series |
| Charge Current (A)          | 25A                                 | 50A                    | 75A                    | 100A                |
| Rated energy storage (KWh)  | 2.56kwh                             | 5.12kwh                | 7.68kwh                | 10.24kwh            |
| Operating voltage range     | 40V~58.4v                           | 40V~58.4v              | 40V~58.4v              | 40V~58.4v           |
| Operating temperature range | Charge: 0-60°C; Discharge: -20-60°C |                        |                        |                     |
| Communication interface     | RS485/RS23/CAN                      | RS485/RS23/CAN         | RS485/RS23/CAN         | RS485/RS23/CAN      |
| Optional features           | 16 Series and parallel              | 16 Series and parallel | 16 Series and parallel | 16                  |
| Cycle life                  | ≥6000                               | ≥6000                  | ≥6000                  | ≥6000               |
| Weight                      | ≤30kg                               | ≤48kg                  | ≤65kg                  | ≤84kg               |
| Size (mm)                   | 482*400*177mm                       | 482*440*177mm          | 482*500*222mm          | 482*500*280mm       |

## Nova Cabinet series High pressure energy storage system



Novacell high voltage energy storage system is composed of a battery pack with a battery management system, which is used together with an inverter. The flexible battery management system makes the chassis lithium battery have the characteristics of high safety, long life and good performance, and can be applied to various fields

| Model                       | 92V100Ah                             | 192V100Ah           | 512V100Ah           | 716V100Ah           |
|-----------------------------|--------------------------------------|---------------------|---------------------|---------------------|
| Nominal voltage             | 92V                                  | 192V                | 512V                | 716.8V              |
| Nominal Capacity            | 100Ah                                | 100Ah               | 100Ah               | 100Ah               |
| BMS                         | 100A                                 | 100A                | 100A                | 100A                |
| Structure                   | 2S1P                                 | 4S1P                | 10S1P               | 14S1P               |
| Charge Current (A)          | 50A                                  | 50A                 | 50A                 | 50A                 |
| Rated energy storage (KWh)  | 10.24kwh                             | 19.2kwh             | 51.2kwh             | 71.6kwh             |
| Operating voltage range     | 80V-116.8V                           | 160V-233.6V         | 400V-584V           | 560V-817.6V         |
| Operating temperature range | Charge : 0-60°C; Discharge: -20-60°C |                     |                     |                     |
| Communication interface     | RS485/RS23/CAN                       | RS485/RS23/CAN      | RS485/RS23/CAN      | RS485/RS23/CAN      |
| Array mode                  | 16S1P                                | 16S1P               | 16S1P               | 16S1P               |
| Cycle life                  | ≥ 6000                               | ≥ 6000              | ≥ 6000              | ≥ 6000              |
| Weight                      | 120kg                                | 220kg               | 450kg               | 800kg               |
| Size (mm)                   | Customize on demand                  | Customize on demand | Customize on demand | Customize on demand |

## High Voltage LiFePo4 Battery

- \* Wide AC voltage choices 96V ~ 512V
- \* Produce in premium prismatic cells from CATL, BYD, EVE and Great Power etc;
- \* 6000+ cycles and 5-10 years warranty;
- \* Certified by IEC62619, UL1973, UN38.3, CE certificates;
- \* With smart master control system for remote control;
- \* Customized systems and OEM requests are all welcomed!



## Novacell 96V ~ 512V commercial/industrial lifepo4 battery



## Parameter

| Model Number             | NVHV102105   | NVHV204105   | NVHV256105   | NVHV409105       | NVHV512105       | NVHV614105        |
|--------------------------|--|--------------|--------------|------------------|------------------|-------------------|
| Rated voltage            | 102.4V   | 204.8V       | 256V         | 409.6V           | 512V             | 614.4V            |
| Working voltage range    | 80-116.8V  | 160-230.4V   | 200-288V     | 320-460.8V       | 400-576V         | 480-691.2V        |
| Charge voltage           | 108.8-112V   | 217-230.4V   | 272-288V     | 428-435V         | 544-576V         | 652-691.2V        |
| Floating charge voltage  | 107.2-108.8V   | 214.4-217V   | 268-272V     | 428-435V         | 536-544V         | 643-652V          |
| Rated capacity           | 105Ah  |              |              |                  |                  |                   |
| Energy                   | 10.75KWH   | 21.50KWH     | 26.88KWH     | 43.01KWH         | 53.76KWH         | 64.51KWH          |
| Rated charge current     | 50A  |              |              |                  |                  |                   |
| Peak charge current      | 105A   |              |              |                  |                  |                   |
| Rated discharge current  | 105A   |              |              |                  |                  |                   |
| Peak discharge current   | 210A   |              |              |                  |                  |                   |
| Charge temperature       | 0-55°C   |              |              |                  |                  |                   |
| Discharge temperature    | -10-55°C   |              |              |                  |                  |                   |
| Optimum temperature      | 15-25C   |              |              |                  |                  |                   |
| Cooling method           | Natural cooling  |              |              |                  |                  |                   |
| Relative humidity        | 5%-95%   |              |              |                  |                  |                   |
| Altitude                 | ≤2000M   |              |              |                  |                  |                   |
| Cycle Life               | ≤3500 times @ 80% DOD,0.5C/0.5C,25°C   |              |              |                  |                  |                   |
| Communication interfaces | CAN2.0 /RS485 /Dry   |              |              |                  |                  |                   |
| Protection               | Over temperature, over current, over voltage, insulation and other multiple protection |              |              |                  |                  |                   |
| Display                  | LCD  |              |              |                  |                  |                   |
| Design lifetime          | ≥10 years  |              |              |                  |                  |                   |
| Certification            | UN383/UL1973/IEC62619  |              |              |                  |                  |                   |
| Dimension (L*W*H)        | 600x600x550  | 600x600x1287 | 600x600x1510 | (600x600x1287)x2 | (600x600x1510)x2 | (600x660x1954M)x2 |
| Weight                   | 145KG  | 275KG        | 325KG        | 540KG            | 630KG            | 850KG             |
| Module modle             | 51.2V50AH  | 51.2V105AH   | 51.2V105AH   | 51.2V105AH       | 51.2V105AH       | 51.2V105AH        |
| SeriaVParallel           | 16S1P  |              |              |                  |                  |                   |
| Module dimension         | 482.6*416.2*177  |              |              |                  |                  |                   |
| Module weight            | 46.5KG   |              |              |                  |                  |                   |
| Number of modules        | 2PCS   | 4PCS         | 5PCS         | 8PCS             | 10PCS            | 12PCS             |
| Battery type             | LiFePO4  |              |              |                  |                  |                   |





# Wall mounted series Lithium iron phosphate battery



Novacell wall-mounted energy storage battery enhances the independence of the system's electricity consumption by storing solar energy, and can enjoy the clean energy generated by your own home at night. With solar energy, it can charge the home appliance with sunlight, which can continuously power the home appliance for several days. Ensure uninterrupted operation of the home appliance and all-round energy supply. Stylish appearance, easy installation, simple design, strong and durable, perfect fit for a variety of residential styles

## Features:

Long cycle life (6000 cycles), up to 10 years

Sophisticated appearance and ultra-light body

One-key switch machine, convenient operation, high efficiency and energy saving

High compatibility BMS, compatible with various brands of energy storage inverters

Support parallel capacity expansion, up to 16 parallel machines, address automatic acquisition, no manual operation

Multiple communication interfaces: RS232, RS485, CAN  
Simple external connection, saving installation time and cost

Wall-mounted installation, easy installation, small space occupation

| Parameter                   |  |  |  |  |
|-----------------------------|--|--|--|--|
| Model                       | 48V50Ah  | 48V100Ah   | 48V150Ah   | 48V200Ah   |
| Nominal voltage             | 51.2V  | 51.2V  | 51.2V  | 48V  |
| Nominal Capacity            | 50Ah   | 100Ah  | 150Ah  | 200Ah  |
| BMS                         | 50A  | 100A   | 150A   | 200A   |
| Structure                   | 3.2v50Ah 16S   | 3.2V100Ah 16S  | 3.2V150Ah 16S  | 3.2V100Ah 16S  |
| Charge Current (A)          | 25A  | 50A  | 50A  | 50A  |
| Rated energy storage (KWh)  | 2.56kwh  | 5.12kwh  | 7.68kwh  | 10.24kwh   |
| Operating voltage range     | 40V~58.4v  | 40V~58.4v  | 40V~58.4v  | 38V~54.75V   |
| Operating temperature range | Charge: 0-60°C; Discharge: -20-60°C  |  |  |  |
| Communication interface     | RS485/RS23/CAN   | RS485/RS23/CAN   | RS485/RS23/CAN   | RS485/RS23/CAN   |
| Array mode                  | 16S1P  | 16S1P  | 16S1P  | 16S1P  |
| Cycle life                  | ≥6000  | ≥6000  | ≥6000  | ≥6000  |
| Weight                      | ≤30kg  | ≤48kg  | ≤65kg  | ≤84kg  |
| Size (mm)                   | 3U 482*350*132mm   | 4U 482*400*170mm   | 5U 482*430*222mm   | 6U 482*500*280mm   |

## 家庭储能电源( 壁挂式5KWh) 5KWh WALL MOUNTED HOUSEHOLD ENERGY STORAGE SYSTEM

NV-PW5KWh Pro



|            |                                       |                         |  |
|------------|---------------------------------------|-------------------------|--|
| 型 号        | NV-PW5KWh pro                         | Model                   | NV-PW5KWh pro  |
| 电池类型       | 磷酸铁锂                                  | Battery type            | LiFePO4 Battery  |
| 电池容量       | 100Ah/51.2V (5.12kWh)                 | Battery capacity        | 100Ah/51.2V (5.12kWh)  |
| 电池电压范围     | 40-58V                                | Battery voltage range   | 40-58V   |
| 无线通讯       | 支持WIFI蓝牙与手机APP连接                      | Communication mode      | Support WIFI Bluetooth connection with mobile APP  |
| 通 讯        | RS485/CAN                             | communicate             | RS485/CAN  |
| 电池循环寿命     | 3000次循环后, 剩余容量仍在80%以上                 | Battery cycle life      | After3000 cycles, the remaining capacity is still more than 80%  |
| 保护功能       | 过温保护、过压保护、过流保护、过充保护、过放保护、负载短路保护、过载保护。 | System protection       | Over-temperature protection, Over voltage protection, Over current protection, Overcharge protection, Over discharge protection, Load short circuit protection, Overload protection. |
| 放电温度       | -20°C—50°C (推荐环境温度为20°C~ 30°C)        | Discharge Temperature   | -20°C—50°C   |
| 充电温度       | -5°C—50°C (推荐环境温度为20°C~ 30°C )        | Charging Temperature    | -5°C—50°C  |
| 储存温度       | 推荐环境温度为0°C~ 45°C                      | Storage Temperature     | The recommended ambient temperature ranges from 0°C to 45°C  |
| 尺寸 (长*宽*高) | L400mm*W180mm*H570mm                  | Size                    | L400mm*W180mm*H570mm   |
| 重 量        | 50Kg                                  | Weight                  | 50Kg   |
| 认证标准       | CE FCC ROHS                           | Certification standards | CE FCC ROHS  |



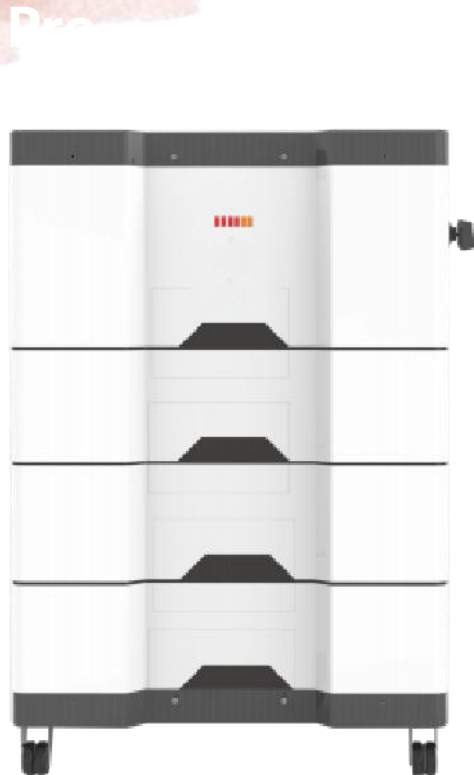
## NV-ESSW10KWh



# 家庭储能电源(一体机10KWh) 10KWh All IN ONE HOUSEHOLD ENERGY STORAGE SYSTEM

| 型号         | NV-ESSW10KWh pro                      | Model                   | NV-ESSW10KWh pro  |
|------------|---------------------------------------|-------------------------|---|
| 尺寸 (长*宽*高) | L600mm*W466mm*H1520mm                 | Size                    | L600mm*W466mm*H1520mm   |
| 重量         | 180Kg                                 | Weight                  | Approx 180Kg  |
| 电池容量       | 200Ah/51.2V (10.24KWh)                | Battery capacity        | 200Ah/51.2V (10.24KWh)  |
| 认证标准       | CE FCC ROHS                           | Certification standards | CE FCC ROHS   |
| 交流输出       | 176-270V                              | AC Output               | 176-270V  |
| 输出功率       | 额定功率：6000W,峰值功率：7000W                 | Inverter Output power   | Rated power 6000W, peak power 7000W   |
| 太阳能充电输入    | 125-500V                              | Solar Charging Input    | 125-500V  |
| 电池电压范围     | 40-58V                                | Battery voltage range   | 40-58V  |
| 无线通讯       | 支持WIFI蓝牙与手机APP连接                      | Communication mode      | Support WIFI Bluetooth connection with mobile APP   |
| 通讯         | RS485//CAN                            | communicate             | RS485/CAN   |
| 电池类型       | 磷酸铁锂                                  | Battery type            | LiFePO4 Battery   |
| 电池循环寿命     | 3000次循环后，剩余容量仍在80%以上                  | Battery cycle life      | After3000 cycles, the remaining capacity is still more than 80%   |
| 保护功能       | 过温保护、过压保护、过流保护、过充保护、过放保护、负载短路保护、过载保护。 | System protection       | Over-temperature protection, Over voltage protection,Over current protection,Overcharge protection,Over discharge protection,Load short circuit protection,Overload protection. |
| 放电温度       | -20℃—50℃ (推荐环境温度为15℃~35℃)             | Discharge Temperature   | -20℃—50℃  |
| 充电温度       | -5℃—50℃ (推荐环境温度为15℃~35℃)              | Charging Temperature    | -5℃—50℃   |
| 储存温度       | 推荐环境温度为0℃~45℃                         | Storage Temperature     | The recommended ambient temperature ranges from 0℃ to 45℃   |

## NV-ESSW15KWh



# 家庭储能电源(一体机15KWh) 15KWh All IN ONE HOUSEHOLD ENERGY STORAGE SYSTEM

| 型号         | NV-ESSW15KWh pro                      | Model                   | NV-ESSW15KWh pro   |
|------------|---------------------------------------|-------------------------|--|
| 尺寸 (长*宽*高) | L645mm*W569mm*H955mm                  | Size                    | L645mm*W569mm*H955mm   |
| 重量         | < 300Kg                               | Weight                  | Approx 300Kg   |
| 电池容量       | 80Ah/192V (15.36kWh)                  | Battery capacity        | 80Ah/192V (15.36kWh)   |
| 认证标准       | CE FCC ROHS                           | Certification standards | CE FCC ROHS  |
| 交流输出       | 240 / 440 V                           | AC Output               | 240 / 440 V  |
| 输出功率       | 额定功率：10000W，峰值功率：15000W               | Inverter Output power   | Rated power 10000W, peak power 15000W  |
| 太阳能充电输入    | 180 V ~ 850 V                         | Solar Charging Input    | 180 V ~ 850 V  |
| 电池电压范围     | 150V-219V                             | Battery voltage range   | 150V-219V  |
| 无线通讯       | 支持WIFI蓝牙与手机APP连接                      | Communication mode      | Support WIFI Bluetooth connection with mobile APP  |
| 通讯         | RS485/CAN                             | communicate             | RS485/CAN  |
| 电池类型       | 磷酸铁锂                                  | Battery type            | LiFePO4 Battery  |
| 电池循环寿命     | 3000次循环后，剩余容量仍在80%以上                  | Battery cycle life      | After3000 cycles, the remaining capacity is still more than 80%  |
| 保护功能       | 过温保护、过压保护、过流保护、过充保护、过放保护、负载短路保护、过载保护。 | System protection       | Over-temperature protection, Over voltage protection, Over current protection, Overcharge protection, Over discharge protection, Load short circuit protection, Overload protection. |
| 放电温度       | -20℃—50℃ (推荐环境温度为15℃~35℃)             | Discharge Temperature   | -20℃—50℃   |
| 充电温度       | -5℃—50℃ (推荐环境温度为15℃~35℃)              | Charging Temperature    | -5℃—50℃  |
| 储存温度       | 推荐环境温度为0℃~ 45℃                        | Storage Temperature     | The recommended ambient temperature ranges from 0℃ to 45℃  |

## 家庭储能电源 (堆叠式5KWh) 5KWh STACKED HOUSEHOLD ENERGY STORAGE SYSTEM

NV-ESSS5KWh



|            |                                       |                         |  |
|------------|---------------------------------------|-------------------------|--|
| 型 号        | NV-ESSS5KWh                           | Model                   | NV-ESSS5KWh  |
| 电池类型       | 磷酸铁锂                                  | Battery type            | LiFePO4 Battery  |
| 电池容量       | 100Ah/51.2V (5.12kWh)                 | Battery capacity        | 100Ah/51.2V (5.12kWh)  |
| 交流输出       | 176-270V                              | AC Output               | 176-270V   |
| 输出功率       | 额定功率：3000W,峰值功率：4600W                 | Inverter Output power   | Rated power 3000W, peak power 4600W  |
| 太阳能充电输入    | 125-500V                              | Solar Charging Input    | 125-500V   |
| 电池电压范围     | 40-58V                                | Battery voltage range   | 40-58V   |
| 无线通讯       | 支持WIFI蓝牙与手机APP连接                      | Communication mode      | Support WIFI Bluetooth connection with mobile APP  |
| 通 讯        | RS485/CAN                             | communicate             | RS485/CAN  |
| 电池循环寿命     | 3000次循环后，剩余容量仍在80%以上                  | Battery cycle life      | After 3000 cycles, the remaining capacity is still more than 80%   |
| 保护功能       | 过温保护、过压保护、过流保护、过充保护、过放保护、负载短路保护、过载保护。 | System protection       | Over-temperature protection, Over voltage protection, Over current protection, Overcharge protection, Over discharge protection, Load short circuit protection, Overload protection. |
| 放电温度       | -20℃—50℃ (推荐环境温度为20℃~ 30℃)            | Discharge Temperature   | -20℃—50℃   |
| 充电温度       | -5℃—50℃ (推荐环境温度为20℃~ 30℃)             | Charging Temperature    | -5℃—50℃  |
| 储存温度       | 推荐环境温度为0℃~ 45℃                        | Storage Temperature     | The recommended ambient temperature ranges from 0℃ to 45℃  |
| 尺寸 (长*宽*高) | L637mm*W387mm*H914mm                  | Size                    | L637mm*W387mm*H914mm   |
| 重 量        | 118Kg                                 | Weight                  | 118Kg  |
| 认证标准       | CE FCC ROHS                           | Certification standards | CE FCC ROHS  |

## 家庭储能电源(堆叠式10KWh)

### 10KWh STACKED HOUSEHOLD ENERGY STORAGE SYSTEM

NV-ESSS10KWh



|            |                                       |                         |  |
|------------|---------------------------------------|-------------------------|--|
| 型 号        | NV-ESSS10KWh                          | Model                   | NV-ESSS10KWh   |
| 电池类型       | 磷酸铁锂                                  | Battery type            | LiFePO4 Battery  |
| 电池容量       | 200Ah/51.2V (10.24kWh)                | Battery capacity        | 200Ah/51.2V (10.24kWh)   |
| 交流输出       | 176-270V                              | AC Output               | 176-270V   |
| 输出功率       | 额定功率：6000W,峰值功率：7000W                 | Inverter Output power   | Rated power 6000W, peak power 7000W  |
| 太阳能充电输入    | 125-500V                              | Solar Charging Input    | 125-500V   |
| 电池电压范围     | 40-58V                                | Battery voltage range   | 40-58V   |
| 无线通讯       | 支持WIFI蓝牙与手机APP连接                      | Communication mode      | Support WIFI Bluetooth connection with mobile APP  |
| 通 讯        | RS485/CAN                             | communicate             | RS485/CAN  |
| 电池循环寿命     | 3000次循环后，剩余容量仍在80%以上                  | Battery cycle life      | After 3000 cycles, the remaining capacity is still more than 80%   |
| 保护功能       | 过温保护、过压保护、过流保护、过充保护、过放保护、负载短路保护、过载保护。 | System protection       | Over-temperature protection, Over voltage protection, Over current protection, Overcharge protection, Over discharge protection, Load short circuit protection, Overload protection. |
| 放电温度       | -20℃—50℃ (推荐环境温度为20℃~ 30℃)            | Discharge Temperature   | -20℃—50℃   |
| 充电温度       | -5℃—50℃ (推荐环境温度为20℃~ 30℃)             | Charging Temperature    | -5℃—50℃  |
| 储存温度       | 推荐环境温度为0℃~ 45℃                        | Storage Temperature     | The recommended ambient temperature ranges from 0℃ to 45℃  |
| 尺寸 (长*宽*高) | L637mm*W387mm*H914mm                  | Size                    | L637mm*W387mm*H914mm   |
| 重 量        | 169.8Kg                               | Weight                  | 169.8Kg  |
| 认证标准       | CE FCC ROHS                           | Certification standards | CE FCC ROHS  |

## 家庭储能电源 (堆叠式15KWh)

### 15KWh STACKED HOUSEHOLD ENERGY STORAGE SYSTEM

NV-ESSS15KWh



|            |                                       |                         |  |
|------------|---------------------------------------|-------------------------|--|
| 型 号        | NV-ESSS15KWh                          | Model                   | NV-ESSS15KWh   |
| 电池类型       | 磷酸铁锂                                  | Battery type            | LiFePO4 Battery  |
| 电池容量       | 300Ah/51.2V (15.36KWh)                | Battery capacity        | 300Ah/51.2V (15.36KWh)   |
| 交流输出       | 176-270V                              | AC Output               | 176-270V   |
| 输出功率       | 额定功率：6000W,峰值功率：7000W                 | Inverter Output power   | Rated power 6000W, peak power 7000W  |
| 太阳能充电输入    | 125-500V                              | Solar Charging Input    | 125-500V   |
| 电池电压范围     | 40-58V                                | Battery voltage range   | 40-58V   |
| 无线通讯       | 支持WIFI蓝牙与手机APP连接                      | Communication mode      | Support WIFI Bluetooth connection with mobile APP  |
| 通 讯        | RS485/CAN                             | communicate             | RS485/CAN  |
| 电池循环寿命     | 3000次循环后, 剩余容量仍在80%以上                 | Battery cycle life      | After 3000 cycles, the remaining capacity is still more than 80%   |
| 保护功能       | 过温保护、过压保护、过流保护、过充保护、过放保护、负载短路保护、过载保护。 | System protection       | Over-temperature protection, Over voltage protection, Over current protection, Overcharge protection, Over discharge protection, Load short circuit protection, Overload protection. |
| 放电温度       | -20℃—50℃ (推荐环境温度为20℃~ 30℃)            | Discharge Temperature   | -20℃—50℃   |
| 充电温度       | -5℃—50℃ (推荐环境温度为20℃~ 30℃)             | Charging Temperature    | -5℃—50℃  |
| 储存温度       | 推荐环境温度为0℃~ 45℃                        | Storage Temperature     | The recommended ambient temperature ranges from 0℃ to 45℃  |
| 尺寸 (长*宽*高) | L637mm*W387mm*H1236mm                 | Size                    | L637mm*W387mm*H1236mm  |
| 重 量        | 221.6Kg                               | Weight                  | 221.6Kg  |
| 认证标准       | CE FCC ROHS                           | Certification standards | CE FCC ROHS  |



## 家庭储能电源(堆叠式20KWh)

## 20KWh HIGH VOLTAGE STACKED HOUSEHOLD ENERGY STORAGE SYSTEM

NV-ESSS20KWh



|            |                                       |                         |  |
|------------|---------------------------------------|-------------------------|--|
| 型 号        | NV-ESSS20KWh                          | Model                   | NV-ESSS20KWh   |
| 电池类型       | 磷酸铁锂                                  | Battery type            | LiFePO4 Battery  |
| 电池容量       | 400Ah/51.2V (20.48KWh)                | Battery capacity        | 400Ah/51.2V (20.48KWh)   |
| 交流输出       | 176-270V                              | AC Output               | 176-270V   |
| 输出功率       | 额定功率：6000W,峰值功率：7000W                 | Inverter Output power   | Rated power 6000W, peak power 7000W  |
| 太阳能充电输入    | 125-500V                              | Solar Charging Input    | 125-500V   |
| 电池电压范围     | 40-58V                                | Battery voltage range   | 40-58V   |
| 高压输出       | 支持高压输出                                | High voltage output     | Support high voltage output  |
| 无线通讯       | 支持WIFI蓝牙与手机APP连接                      | Communication mode      | Support WIFI Bluetooth connection with mobile APP  |
| 通 讯        | RS485/CAN                             | communicate             | RS485/CAN  |
| 电池循环寿命     | 3000次循环后，剩余容量仍在80%以上                  | Battery cycle life      | After 3000 cycles, the remaining capacity is still more than 80%   |
| 保护功能       | 过温保护、过压保护、过流保护、过充保护、过放保护、负载短路保护、过载保护。 | System protection       | Over-temperature protection, Over voltage protection, Over current protection, Overcharge protection, Over discharge protection, Load short circuit protection, Overload protection. |
| 放电温度       | -20℃—50℃ (推荐环境温度为20℃~ 30℃)            | Discharge Temperature   | -20℃—50℃   |
| 充电温度       | -5℃—50℃ (推荐环境温度为20℃~ 30℃ )            | Charging Temperature    | -5℃—50℃  |
| 储存温度       | 推荐环境温度为0℃~ 45℃                        | Storage Temperature     | The recommended ambient temperature ranges from 0℃ to 45℃  |
| 尺寸 (长*宽*高) | L637mm*W387mm*H1397mm                 | Size                    | L637mm*W387mm*H1397mm  |
| 重 量        | 273.4Kg                               | Weight                  | 273.4Kg  |
| 认证标准       | CE FCC ROHS                           | Certification standards | CE FCC ROHS  |

## 家庭储能电源 (堆叠式25KWh)

## 25KWh HIGH VOLTAGE STACKED HOUSEHOLD ENERGY STORAGE SYSTEM

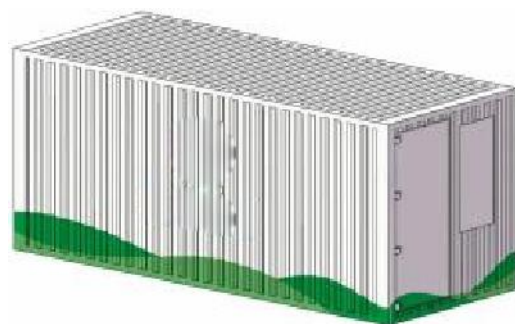
NV-ESSS25KWh



|            |                                       |                         |  |
|------------|---------------------------------------|-------------------------|--|
| 型 号        | NV-ESSS25KWh                          | Model                   | NV-ESSS25KWh   |
| 电池类型       | 磷酸铁锂                                  | Battery type            | LiFePO4 Battery  |
| 电池容量       | 100Ah/256V (25.6KWh)                  | Battery capacity        | 100Ah/256V (25.6KWh)   |
| 交流输出       | 360-440V                              | AC Output               | 360-440V   |
| 输出功率       | 额定功率：8000W,峰值功率：8800W                 | Inverter Output power   | Rated power 8000W, peak power 8800W  |
| 太阳能充电输入    | 180-850V                              | Solar Charging Input    | 180-850V   |
| 电池电压范围     | 200-292V                              | Battery voltage range   | 200-292V   |
| 高压输出       | 支持高压输出                                | High voltage output     | Support high voltage output  |
| 无线通讯       | 支持WIFI蓝牙与手机APP连接                      | Communication mode      | Support WIFI Bluetooth connection with mobile APP  |
| 通 讯        | RS485/CAN                             | communicate             | RS485/CAN  |
| 电池循环寿命     | 3000次循环后，剩余容量仍在80%以上                  | Battery cycle life      | After 3000 cycles, the remaining capacity is still more than 80%   |
| 保护功能       | 过温保护、过压保护、过流保护、过充保护、过放保护、负载短路保护、过载保护。 | System protection       | Over-temperature protection, Over voltage protection, Over current protection, Overcharge protection, Over discharge protection, Load short circuit protection, Overload protection. |
| 放电温度       | -20℃—50℃ (推荐环境温度为20℃~ 30℃)            | Discharge Temperature   | -20℃—50℃   |
| 充电温度       | -5℃—50℃ (推荐环境温度为20℃~ 30℃ )            | Charging Temperature    | -5℃—50℃  |
| 储存温度       | 推荐环境温度为0℃~ 45℃                        | Storage Temperature     | The recommended ambient temperature ranges from 0℃ to 45℃  |
| 尺寸 (长*宽*高) | L637mm*W387mm*H1558mm                 | Size                    | L637mm*W387mm*H1558mm  |
| 重 量        | 325.2Kg                               | Weight                  | 325.2Kg  |
| 认证标准       | CE FCC ROHS                           | Certification standards | CE FCC ROHS  |

# 工业储能电站(250KWh) 250KWh INDUSTRIAL ENERGY STORAGE SYSTEM

NV-ESSI250KWh



## PCS可选配

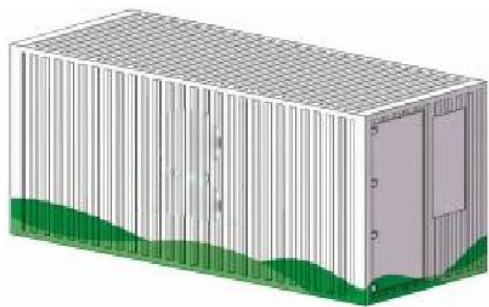
|      |       |       |
|------|-------|-------|
| 50KW | 100KW | 150KW |
|------|-------|-------|

|            |                                       |                         |  |
|------------|---------------------------------------|-------------------------|--|
| 型号         | NV-ESSI250KWh                         | Model                   | NV-ESSI250KWh  |
| 电池类型       | 磷酸铁锂                                  | Battery type            | LiFePO4 Battery  |
| 电池容量       | 560Ah/457.6V (256.25kWh)              | Battery capacity        | 560Ah/457.6V (256.25kWh)   |
| 交流输出       | 320~460V                              | AC Output               | 320~460V   |
| 输出功率       | 额定功率：50kW,峰值功率：55kW                   | Inverter Output power   | Rated power50KW, peak power 55KW   |
| 电池电压范围     | 357.5~521.95V                         | Battery voltage range   | 357.5-521.95V  |
| 额定电流       | 72A                                   | rated current           | 72A  |
| 最大输出电流     | 80A                                   | maximum current output  | 80A  |
| 无线通讯       | 支持WIFI蓝牙与手机APP连接                      | Communication mode      | Support WIFI Bluetooth connection with mobile APP  |
| 通讯         | RS485/CAN                             | communicate             | RS485/CAN  |
| 电池循环寿命     | 3000次循环后，剩余容量仍在80%以上                  | Battery cycle life      | After 3000 cycles, the remaining capacity is still more than 80%   |
| 保护功能       | 过温保护、过压保护、过流保护、过充保护、过放保护、负载短路保护、过载保护。 | System protection       | Over-temperature protection, Over voltage protection, Over current protection, Overcharge protection, Over discharge protection, Load short circuit protection, Overload protection. |
| 放电温度       | -20℃—50℃ (推荐环境温度为20℃~ 30℃)            | Discharge Temperature   | -20℃—50℃   |
| 充电温度       | -5℃—50℃ (推荐环境温度为20℃~ 30℃)             | Charging Temperature    | -5℃—50℃  |
| 储存温度       | 推荐环境温度为0℃~ 45℃                        | Storage Temperature     | The recommended ambient temperature ranges from 0℃ to 45℃  |
| 尺寸 (长*宽*高) | L2991mm*W2438mm*H2591mm               | Size                    | L2991mm*W2438mm*H2591mm  |
| 重量         | 9500Kg                                | Weight                  | 9500Kg   |
| 认证标准       | CE FCC ROHS                           | Certification standards | CE FCC ROHS  |

## 工业储能电站 (500KWh)

### 500KWh INDUSTRIAL ENERGY STORAGE SYSTEM

NV-ESSI500KWh



|            |                                       |                         |  |
|------------|---------------------------------------|-------------------------|--|
| 型 号        | NV-ESSI500KWh                         | Model                   | NV-ESSI500KWh  |
| 电池类型       | 磷酸铁锂                                  | Battery type            | LiFePO4 Battery  |
| 电池容量       | 840Ah/598.4V 502.6kWh)                | Battery capacity        | 840Ah/598.4V 502.6kWh)   |
| 交流输出       | 320~460V                              | AC Output               | 320~460V   |
| 输出功率       | 额定功率：100kW,峰值功率：110kW                 | Inverter Output power   | Rated power 100KW, peak power 110KW  |
| 电池电压范围     | 467.5-682.5V                          | Battery voltage range   | 467.5-682.5V   |
| 额定电流       | 144A                                  | rated current           | 144A   |
| 最大输出电流     | 159A                                  | maximum current output  | 159A   |
| 无线通讯       | 支持WIFI蓝牙与手机APP连接                      | Communication mode      | Support WIFI Bluetooth connection with mobile APP  |
| 通 讯        | RS485/CAN                             | communicate             | RS485/CAN  |
| 电池循环寿命     | 3000次循环后，剩余容量仍在80%以上                  | Battery cycle life      | After 3000 cycles, the remaining capacity is still more than 80%   |
| 保护功能       | 过温保护、过压保护、过流保护、过充保护、过放保护、负载短路保护、过载保护。 | System protection       | Over-temperature protection, Over voltage protection, Over current protection, Overcharge protection, Over discharge protection, Load short circuit protection, Overload protection. |
| 放电温度       | -20℃—50℃ (推荐环境温度为20℃~ 30℃)            | Discharge Temperature   | -20℃—50℃   |
| 充电温度       | -5℃—50℃ (推荐环境温度为20℃~ 30℃ )            | Charging Temperature    | -5℃—50℃  |
| 储存温度       | 推荐环境温度为0℃~ 45℃                        | Storage Temperature     | The recommended ambient temperature ranges from 0℃ to 45℃  |
| 尺寸 (长*宽*高) | L6058mm*W2438mm*H2591mm               | Size                    | L6058mm*W2438mm*H2591mm  |
| 重 量        | 11500Kg                               | Weight                  | 11500Kg  |
| 认证标准       | CE FCC ROHS                           | Certification standards | CE FCC ROHS  |

#### PCS可选配

50KW

100KW

150KW

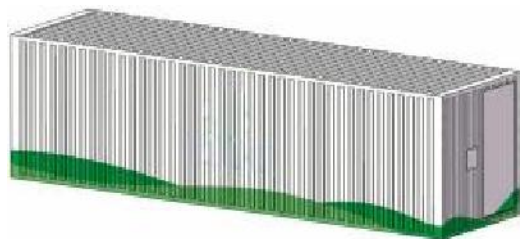
250KW



# 工业储能电站(1MWh)

## 1MWh INDUSTRIAL ENERGY STORAGE SYSTEM

NV-ESS1MWh



### PCS可选配

100kw    150KW    250KW    500KW

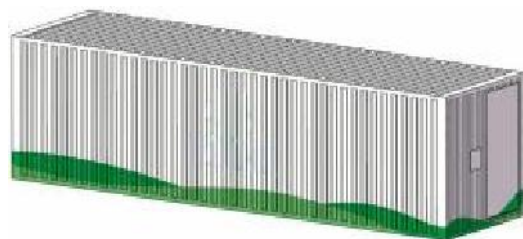
|            |                                       |                         |  |
|------------|---------------------------------------|-------------------------|--|
| 型 号        | NV-ESS1MWh                            | Model                   | NV-ESS1MWh   |
| 电池类型       | 磷酸铁锂                                  | Battery type            | LiFePO4 Battery  |
| 电池容量       | 1680Ah/598.4V (1005.3kWh)             | Battery capacity        | 1680Ah/598.4V (1005.3kWh)  |
| 交流输出       | 320~460V                              | AC Output               | 320~460V   |
| 输出功率       | 额定功率：150kW,峰值功率：165kW                 | Inverter Output power   | Rated power150KW, peak power 165KW   |
| 电池电压范围     | 467.5-682.5V                          | Battery voltage range   | 467.5-682.5V   |
| 额定电流       | 216A                                  | rated current           | 216A   |
| 最大输出电流     | 238A                                  | maximum current output  | 238A   |
| 无线通讯       | 支持WIFI蓝牙与手机APP连接                      | Communication mode      | Support WIFI Bluetooth connection with mobile APP  |
| 通 讯        | RS485/CAN                             | communicate             | RS485/CAN  |
| 电池循环寿命     | 3000次循环后，剩余容量仍在80%以上                  | Battery cycle life      | After 3000 cycles, the remaining capacity is still more than 80%   |
| 保护功能       | 过温保护、过压保护、过流保护、过充保护、过放保护、负载短路保护、过载保护。 | System protection       | Over-temperature protection, Over voltage protection, Over current protection, Overcharge protection, Over discharge protection, Load short circuit protection, Overload protection. |
| 放电温度       | -20℃—50℃ (推荐环境温度为20℃~ 30℃)            | Discharge Temperature   | -20℃—50℃   |
| 充电温度       | -5℃—50℃ (推荐环境温度为20℃~ 30℃ )            | Charging Temperature    | -5℃—50℃  |
| 储存温度       | 推荐环境温度为0℃~ 45℃                        | Storage Temperature     | The recommended ambient temperature ranges from 0℃ to 45℃  |
| 尺寸 (长*宽*高) | L6058mm*W2438mm*H2591mm               | Size                    | L6058mm*W2438mm*H2591mm  |
| 重 量        | 16200Kg                               | Weight                  | Approx 16200Kg   |
| 认证标准       | CE FCC ROHS                           | Certification standards | CE FCC ROHS  |



# 工业储能电站 (2MWh)

## 2MWh INDUSTRIAL ENERGY STORAGE SYSTEM

**NV-ESSI2MWh**



**PCS可选配**

250KW

500KW

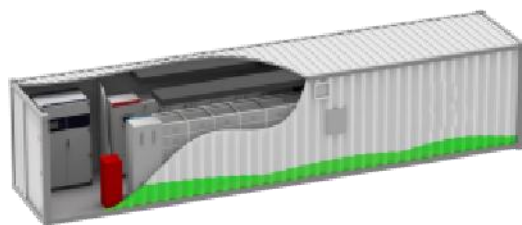
630KW

|            |                                       |                         |  |
|------------|---------------------------------------|-------------------------|--|
| 型 号        | NV-ESSI2MWh                           | Model                   | NV-ESSI2MWh  |
| 电池类型       | 磷酸铁锂                                  | Battery type            | LiFePO4 Battery  |
| 电池容量       | 3360Ah/598.4V (2010.6kWh)             | Battery capacity        | 3360Ah/598.4V (2010.6kWh)  |
| 交流输出       | 320~460V                              | AC Output               | 320~460V   |
| 输出功率       | 额定功率: 250kW,峰值功率: 275kW               | Inverter Output power   | Rated power 250KW, peak power 275KW  |
| 电池电压范围     | 467.5-682.5V                          | Battery voltage range   | 467.5-682.5V   |
| 额定电流       | 361A                                  | rated current           | 361A   |
| 最大输出电流     | 397A                                  | maximum current output  | 397A   |
| 无线通讯       | 支持WIFI蓝牙与手机APP连接                      | Communication mode      | Support WIFI Bluetooth connection with mobile APP  |
| 通 讯        | RS485/CAN                             | communicate             | RS485/CAN  |
| 电池循环寿命     | 3000次循环后, 剩余容量仍在80%以上                 | Battery cycle life      | After 3000 cycles, the remaining capacity is still more than 80%   |
| 保护功能       | 过温保护、过压保护、过流保护、过充保护、过放保护、负载短路保护、过载保护。 | System protection       | Over-temperature protection, Over voltage protection, Over current protection, Overcharge protection, Over discharge protection, Load short circuit protection, Overload protection. |
| 放电温度       | -20℃—50℃ (推荐环境温度为20℃~ 30℃)            | Discharge Temperature   | -20℃—50℃   |
| 充电温度       | -5℃—50℃ (推荐环境温度为20℃~ 30℃ )            | Charging Temperature    | -5℃—50℃  |
| 储存温度       | 推荐环境温度为0℃~ 45℃                        | Storage Temperature     | The recommended ambient temperature ranges from 0℃ to 45℃  |
| 尺寸 (长*宽*高) | L12192mm*W2438mm*H2591mm              | Size                    | L12192mm*W2438mm*H2591mm   |
| 重 量        | 25800Kg                               | Weight                  | 25800Kg  |
| 认证标准       | CE FCC ROHS                           | Certification standards | CE FCC ROHS  |

# 工业储能电站(3MWh)

## 3MWh INDUSTRIAL ENERGY STORAGE SYSTEM

**NV-ESSI3MWh**



### PCS可选配

250KW

500KW

630KW

|            |                                       |                         |  |
|------------|---------------------------------------|-------------------------|--|
| 型 号        | NV-ESSI3MWh                           | Model                   | NV-ESSI3MWh  |
| 电池类型       | 磷酸铁锂                                  | Battery type            | LiFePO4 Battery  |
| 电池容量       | 4480Ah/704V (3153.9kWh)               | Battery capacity        | 4480Ah/704V (3153.9kWh)  |
| 交流输出       | 320~460V                              | AC Output               | 320~460V   |
| 输出功率       | 额定功率：500kW,峰值功率：550kW                 | Inverter Output power   | Rated power 500KW, peak power 550KW  |
| 电池电压范围     | 550~803V                              | Battery voltage range   | 550~803V   |
| 额定电流       | 722A                                  | rated current           | 722A   |
| 最大输出电流     | 794A                                  | maximum current output  | 794A   |
| 无线通讯       | 支持WIFI蓝牙与手机APP连接                      | Communication mode      | Support WIFI Bluetooth connection with mobile APP  |
| 通 讯        | RS485/CAN                             | communicate             | RS485/CAN  |
| 电池循环寿命     | 3000次循环后，剩余容量仍在80%以上                  | Battery cycle life      | After 3000 cycles, the remaining capacity is still more than 80%   |
| 保护功能       | 过温保护、过压保护、过流保护、过充保护、过放保护、负载短路保护、过载保护。 | System protection       | Over-temperature protection, Over voltage protection, Over current protection, Overcharge protection, Over discharge protection, Load short circuit protection, Overload protection. |
| 放电温度       | -20℃—50℃ (推荐环境温度为20℃~ 30℃)            | Discharge Temperature   | -20℃—50℃   |
| 充电温度       | -5℃—50℃ (推荐环境温度为20℃~ 30℃ )            | Charging Temperature    | -5℃—50℃  |
| 储存温度       | 推荐环境温度为0℃~ 45℃                        | Storage Temperature     | The recommended ambient temperature ranges from 0℃ to 45℃  |
| 尺寸 (长*宽*高) | L12192mm*W2438mm*H2896mm              | Size                    | L12192mm*W2438mm*H2896mm   |
| 重 量        | 32000Kg                               | Weight                  | 32000Kg  |
| 认证标准       | CE FCC ROHS                           | Certification standards | CE FCC ROHS  |

# Novacell Microgrid energy storage system

Based on distributed generation technology, microgrid realizes the power load and power quality management of small modular, distributed power supply network, can realize the integration of internal power supply and load, and through the coordination and control of the main grid, smooth access to the main network or independent operation, to meet the user's access to distributed power and power quality. Requirements for reliability and safety of power supply.

## Characteristic

- Achieve parallel/off-grid operation, seamless switching
- Solve the problems of volatility, randomness and intermittency of new energy power generation
- Reduce the impact of new energy access on the power grid
- Each system of wind-wind firewood storage provides power independently, and each micro-source receives scheduling from the energy management system

## Applicable scene

- New energy power generation for commercial buildings and industrial parks
- New energy generation in islands and remote areas without electricity

## Profit model

- Reduce diesel power generation and transportation costs
- Self-use, reduce electricity costs, surplus electricity online
- Reduce capacity expansion costs
- Sell carbon trading allowances leftover from emission reduction targets



# Novacell Microgrid energy storage system

| Model                            | NV-3015A-ESS   | NV-6030A-ESS   | NV-10050A-ESS  | NV-200100A-ESS | NV-400200A-ESS |
|----------------------------------|--|----------------|----------------|----------------|----------------|
| <b>System parameter</b>          |  |                |                |                |                |
| Maximum power                    | 11kW   | 33kW           | 55kW           | 110kW          | 220kW          |
| Rated power                      | 10kW   | 30kW           | 50kW           | 100kW          | 200kW          |
| Rated voltage                    | AC400V (320V-460V)   |                |                |                |                |
| Rated current                    | 25A  | 43A            | 72A            | 145A           | 290A           |
| system capacity                  | 30kWh  | 60kWh          | 100kWh         | 200kWh         | 400kWh         |
| Type of battery                  | Lithium iron phosphate(LFP)  |                |                |                |                |
| Grid mode                        | Grid-connected/off-grid  |                |                |                |                |
| <b>PV parameter</b>              |  |                |                |                |                |
| Maximum PV input voltage         | 500Vdc   | 950Vdc         | 950Vdc         | 950Vdc         | 950Vdc         |
| Maximum PV input power           | 11kW   | 60kW           | 120kW          | 180kW          | 250kW          |
| MPPT operating voltage range     | 120-500Vdc   | 250-850Vdc     | 250-850Vdc     | 250-850Vdc     | 250-850Vdc     |
| MPPT full load voltage range     | 120-450Vdc   | 450-850Vdc     | 450-850Vdc     | 450-850Vdc     | 450-850Vdc     |
| <b>Battery parameter</b>         |  |                |                |                |                |
| Rated battery capacity           | 20.48kWh   | 57.344kWh      | 100.352kWh     | 200.704kWh     | 401.408kWh     |
| Rated battery voltage            | 51.2V  | 204.8V         | 358.4V         | 716.8V         | 716.8V         |
| Battery operating voltage        | 40V-58.4V  | 172.8-230.4V   | 302.4-403.2V   | 604.8-806.4V   | 604.8-806.4V   |
| Rated charge and discharge ratio | 0.5C   |                |                |                |                |
| Max.charge and discharge current | 50A  | 55A            | 90A            | 150A           | 150A           |
| <b>EMS parameter</b>             |  |                |                |                |                |
| Product parameter                | 10.1" display interface, 2-channel Ethernet, ModbusTCP, CAN, RS485, wireless antenna and GPS antenna interface |                |                |                |                |
| <b>Auxiliary parameter</b>       |  |                |                |                |                |
| Non-isolated size (L*W*H)mm      | 800*800*2000   | 1000*800*2000  | 1000*1000*2100 | 1000*1600*2100 | 1000*3200*2100 |
| Isolated size (L*W*H)mm          | 800*1000*2000  | 1000*1000*2000 | 1000*1200*2100 | 1000*2000*2100 | 1000*4000*2100 |
| Product weight                   | 700/800kg  | 900/1050kg     | 1300/1500kg    | 2000/2200kg    | 4000/4400kg    |
| System life                      | 6000times@25°C, 0.5CP, 95%DOD, Residual SOC≥70%  |                |                |                |                |
| Altitude                         | 2000m  |                |                |                |                |
| Operating temperature            | -20°C ~ 55°C   |                |                |                |                |
| Ambient humidity                 | 5% - 95%RH, no condensation  |                |                |                |                |
| Fire extinguishing system        | Hot melt adhesive/HFC-propane/non-storage pressure perfluorohexanone fire extinguishing system                 |                |                |                |                |
| Type of cooling                  | Industrial air conditioning, intelligent air cooling   |                |                |                |                |
| Capacity of air conditioner      | AC1500W  | AC2000W        | AC3000W        | AC4000W        | AC8000W        |
| level of protection              | IP55/IP66  |                |                |                |                |



## Golf Cart Lithium Battery

NOVACELL Golf Cart LiFePO4 Battery Series are High-Performance batteries specially designed for EZGO, Club Car, Yamaha, and other golf cart brands. NVLF series battery can replace perfectly for customer's old lead acid type!



1. Built-in BMS with Big Discharge Rate;
2. OEM Battery Design and Size;
3. Custom Digital LCD display;
4. CAN Bus/ Bluetooth communication;
5. Any Capacities in 36V , 48V and 72V:
6. Outstanding hill-climbing power and acceleration;



## Parameter

|                                |   |            |  |           |            |
|--------------------------------|---|------------|--|-----------|------------|
| Model Number                   | NVLF36-80   | NVLF36-100 | NVLF48-60  | NVLF48-80 | NVLF48-100 |
| Normal Battery Energy          | 3.07KWH   | 3.84KWH    | 3.07KWH  | 4.10KWH   | 5.12KWH    |
| Normal Capacity                | 80AH  | 100AH      | 60AH   | 80AH      | 100AH      |
| Normal Voltage                 | 38.4V   |            | 51.2V  |           |            |
| Dimensions                     |   |            | 480x290x180  |           |            |
| Internal Resistance            | ≤30mΩ   |            |  |           |            |
| Cycle Life                     | >3500 Cycles  |            |  |           |            |
| Months Self Discharge          | <3%   |            |  |           |            |
| charge Data                    |   |            |  |           |            |
| DC Normal Charge Voltage       | 43.8±1Vdc   |            | 58.4±1Vdc  |           |            |
| Charge Mode                    | 0.2C to 43.8V, then 43.8V charge current to 0.02C (CC/CV) |            | 0.2C to 58.4V, then 58.4V, charge current to 0.02C (CC/CV) |           |            |
| Recommended Charge Current     | ≤30A  |            | ≤20A   | ≤30A      |            |
| Allowed Max. Charge Current    | 40A   | 50A        | 30A  | 40A       | 50A        |
| Charge Cut-off Voltage         | 43.8V   |            | 58.4V  |           |            |
| Discharge Data                 |   |            |  |           |            |
| Continuous Discharge Current   | 80A   | 100A       | 60A  | 80A       | 100A       |
| Allowed Max. discharge current | 240A  | 300A       | 180A   | 240A      | 300A       |
| Discharge cut-off voltage      | 34V   |            | 45V  |           |            |
| working condition              |   |            |  |           |            |
| Charge Temperature             | 0°C to 45°C(32°F to 113°F)                                |            |  |           |            |
| Discharge Temperature          | -20°C to 60°C(4°F to 140°F)                               |            |  |           |            |
| Storage Temperature            | 0°C to 40°C(32°F to 104°F)                                |            |  |           |            |
| Enclosure Protection Level     | IP54  |            |  |           |            |
| Mechanical Data                |   |            |  |           |            |
| Cell&Capacity                  | LiFePO4 Battery   |            |  |           |            |
| Shell material                 | Iron shell  |            |  |           |            |

