Power Cube

Modular Industrial and Commercial ESS Power Cube Series

Power Cube EC215-100K-M01

ZONERGY

System efficiency is 5-8% higher than the industry average Significantly improve system investment ROI.

Industry leading in battery temperature consistency Effectively extending battery life by more than 10%.

Real-time data monitoring and fault recording, early warning, fault location.

Pack-level combustible gas detection and fire protection.

Integrated design, convenient transportation, reduce installation costs.

The large capacity cell reduces the system series-parallel connection.

Support for parallel, flexible capacity expansion.

Support grid-connected and off-grid operation.

Industrial and Commercial Energy Storage Application Scenarios

- Industrial and commercial energy storage is a typical application of distributed energy storage system on the user side, mainly composed of photovoltaic modules, hybrid PCS, battery packs, loads, etc., mostly modular scalable design;
- The main application scenarios include factories and shopping malls, photovoltaic energy storage charging stations, and microgrid+ energy storage, and new application scenarios have appeared in data centers, 5G base stations, heavy trucks switching, port shore power, and so on;
- The main application modes include grid-connected mode, pure off-grid mode, and integrated grid-connected and off-grid mode;
- The main electrical system architectures are AC-coupled and DC-coupled.

Industrial and Commercial Application

Micro-grid

Photovoltaic Energy Storage and Charging Station

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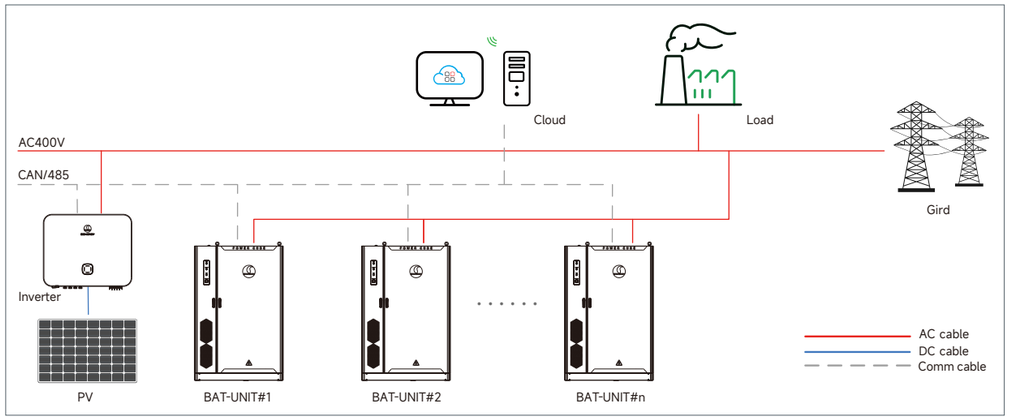
Technical parameters:	Power Cube EC215-100K-M01
	Battery configuration
Battery type	LFP 280 Ah
PACK configuration	14.336 kWh / 1P16S
Battery system configuration	215 kWh / 1P240S
Voltage Range	672-864 Vdc
	AC parameters (on-grid)
Rated power	100 kW
Maximum charge and discharge power	110 kW
Rated grid voltage	400, 3W+N+PE
Grid voltage range	360-440 Vac
rated current	150 A
Maximum Current	160 A
Rated grid frequency	50 Hz
Allowable grid frequency fluctuations	±5 Hz
Power Factor Range	-1 ~ +1
iTHD	< 3% (Rated power)
	System parameters
Size of battery cabinet	1600*1080*2270 mm (W*D*H)
Weight of battery cabinet	~2400 kg
Protection level	IP55
Operating temperature range	-30~+50℃ (>45℃Reduction)
Operating humidity range	0~95% (No condensation)
Max. working altitude	3000 m
Cooling mode	Intelligent air-cooled
Isolation mode	No transformer
Communication interface	Ethernet
Communication protocol	Modbus TCP
System certification	EN IEC62477-1, EN IEC62619, IEC60730 Annex H, EN IEC61000-6-2, EN IEC61000-6-4, UN38.3
PCS certification	GB/T34120, EN/IEC62477-1, IEC61000-6-2/-4, VDE 4105, EN50549-1, UK G99, Italy CEI 0-21



Note: Technical parameters listed hereunder are for reference only. Actual parameters shall be subject to products shipped.

Na

Small aluminum shell/soft pack series of sodium-ion battery cells

NFPP50160118-EA60/NFM19161124-EA24

Ultra-safe
Passed TÜV SÜD safety tests including projectile fire test, overcharge/overdischarge, short circuit, thermal abuse, and nail penetration
Maximum battery cell surface temperature ≤60℃ during nail penetration test

Ultra-low temperature endurance
-20℃, 94% capacity retention rate
-60℃, 81% capacity retention rate

Ultra-high rate
8C discharge capacity retention rate ≥90%
Customizable solutions supporting 20C+ rates for specific applications

Ultra-long life
Projected cycle life exceeds 2,500 cycles at 80% SOH (NFM)
Projected cycle life exceeds 6,000 cycles at 80% SOH (NFPP)

Convenient and safe storage and transportation
Capable of 100% capacity recovery after discharging to 0V, allowing safe storage and transportation at zero-voltage state
Maintains 40% SOC at shipment with self-discharge to zero voltage in up to 2.5 years

Technical parameters:	NFM19161124-EA24	NFPP50160118-EA60
Standard capacity	24Ah	60Ah
Operating voltage	1.5~3.95V (≥0℃) ,1.2~3.95V (< 0℃)	1.5~3.4V (≥0℃) ,1.2~3.4V (< 0℃)
Nominal voltage	2.95V@0.5P	2.83V@0.5P
Internal resistance of battery	< 1.2mΩ	< 0.5mΩ
Monthly self-discharge	≤5.0%/month	≤5.0%/month
Operating temperature (charging)	-10~60℃	-10~60℃
Operating temperature (discharging)	-60~60℃	-60~60℃
Battery weight	570±30g	1580±100g
Storage temperature	-60~60℃	-60~60℃
Battery size	Thickness: 19mm Width: 161mm Height: 124mm	Width: 160±0.3mm Height: 118.6±0.5mm Thickness: 50±0.3mm
Operating altitude	< 5000m	< 5000m
Cycle life	≥2500Cycles，80%SOH	> 6000Cycles，80%SOH

Application areas:

The small aluminum shell / soft pack series of sodium-ion battery cells feature excellent safety performance, light weight, high energy density, flexible design, and long cycle life. They can be flexibly configured while offering an outstanding cost-performance ratio, making them highly valuable for applications in light-duty power or power-type fields.

Application scenarios:

Two-wheelers, three-wheelers, low-speed electric vehicles, start-stop power supplies, and other applications requiring higher energy density and greater flexibility.

Two-wheelers

Three-wheelers

Low-speed electric vehicles

Start-stop power supply

Panda

Residential Single-phase Energy Storage System Panda Series

Panda 3680S~6000S-5HP~30HP

ZONERGY

The Lithium Iron Phosphate (LFP) cell secures safe and reliable operation.

The automatic isolation of the faulty battery module secures smooth system operation.

The 5 KWh module adopted enables variable capacity range of 5-30 kWh.

The switching time between on-off grid less than 10 ms secures Uninterruptable Power Supply for the load.

The APP-based remote monitoring offers easy maintenance and unlimited function expansion.

The built-in Smart Grid Management module enables power grid dispatching.

IP66

The Degree of Protection at IP66 makes it suitable for various harsh environments for application.

Residential Energy Storage Application Scenarios: Energy Storage + X

- The residential energy storage system addresses stable power demand and offers functions such as leveraging price differentials between peak and off-peak hours to reduce electricity costs and enhance the self-consumption rate of photovoltaic power generation. It serves as an integrated solution tailored for household scenarios.
- The core of the residential energy storage system is the battery pack, BMS, and energy storage inverter, which is paired with household PV to form a residential photovoltaic energy storage system, mainly including the battery pack, BMS, hybrid PCS, and PV modules.
- Residential energy storage is developing rapidly in the European market. Europe's higher level of electricity prices combined with peak and valley price differentials, as well as the incentive policy and declining energy storage cell prices, contribute to the favorable economic viability of residential energy storage.


Residential Energy Storage


Residential Photovoltaic Energy Storage


Residential Photovoltaic Energy Storage and Charging


Residential Photovoltaic Energy Savings


Residential Photovoltaic Energy Storage Heat Pump

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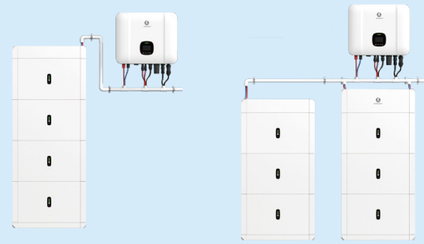
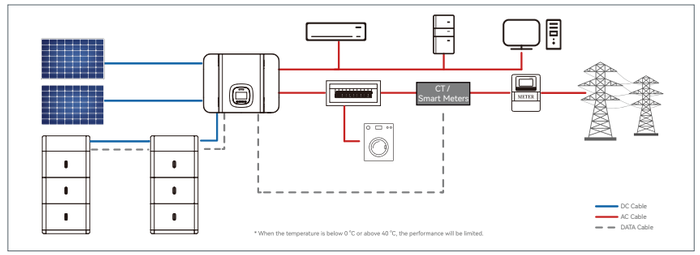
System Demo	 Flexible combination of 1-6 battery modules						

	System Specification						
Nominal Output Power	3680 W	4000 W	4600 W	5000 W	6000 W	3680 W	4000 W
Capacity Range	5.12~30.72 kWh						
Usable Capacity Range	4.6~27.65 kWh						
Battery Chemistry	LFP (LiFePO4)						
IP Protection	IP66 (Outdoor)						

	Inverter Technical Specification						
Model	Venus 3680-S1	Venus 4000-S1	Venus 4600-S1	Venus 5000-S1	Venus 6000-S1	Venus 3680-S2	Venus 4000-S2
Phase	Single Phase						
Max. PV Input Voltage	600 V						
MPPT Voltage Range	100 V~550 V						
Max. PV Input Current	16 A / 16 A					16A	
Max. PV Input Power	8000 W	9000 W	9000 W	9000 W	9000 W	4500 W	4500 W
Max. MPPT Short-circuit Current	20 A / 20 A					20A	
Number of Independent MPPT	2					1	
Start-up Voltage Range	120 V						
Max. Charging/Discharging Current	100 A						
Max. Charging/Discharging Power	5000 W						
Nominal Output Voltage on Grid	220 V,230 V,240 V (comply with local regulations)						
Output Voltage Range on Grid	180 ~ 276 V						
Rated Grid Output Frequency on Grid	50 Hz/60 Hz						
Max.AC output Power	3680 W	4000 W	4600 W	5000 W	6000 W	3680 W	4000 W
Nominal AC Output Voltage	230 V						
Communication	CAN2.0/RS485, WIFI/4G(optional)						
Display	LCD & APP						
Dimension(W*H*D) mm	540 x 450 x185						
Certification	EN IEC62109-1, EN IEC62109-2, IEC61683, IEC61727, IEC62116, IEC60068, EN IEC61000-6-1, EN IEC61000-6-3, IEC60529 IP66, EN50549-1, EN50530, Italy CEI 0-21, Germany VDE4105, UK G98, G99, Spain UNE217001, UNE217002, NTS 2.1, RoHS(2011/65/EU+2015/863), WEEE(2012/19/EU), ISTA, UKCA						

	Battery Technical Specification					
Module Model	Limestone 5H-P	Limestone 10H-P	Limestone 15H-P	Limestone 20H-P	Limestone 25H-P	Limestone 30H-P
Module Capacity	5.12 kWh	10.24 kWh	15.35 kWh	20.48 kWh	25.64 kWh	30.72 kWh
Usable Capacity	4.6 kWh	9.21 kWh	13.81 kWh	18.43 kWh	23.04 kWh	27.65 kWh
Nominal Voltage	51.2 V					
Max. Charging/Discharging Power	2.5 kW	5 kW	5 kW	5 kW	5 kW	5 kW
Operating Temperature Range	-20 ~ +50 ℃					
Dimension(W*H*D) mm	650 x 620 x 180	650 x 980 x 180	650 x 1340 x 180	650 x 1700 x 180	650 x 1340 x 180 650 x 980 x 180	650 x 1340 x 180 650 x 1340 x 180
Certification	IEC62619, IEC63056, EN IEC61000-6-1, IEC61000-6-3, EN IEC62040-1, EN IEC62477-1, IEC60730-1 Annex H, IEC60529 IP66, UN38.3, MSDS, RoHS(2011/65/EU+2015/863), WEEE(2012/19/EU), ISTA					



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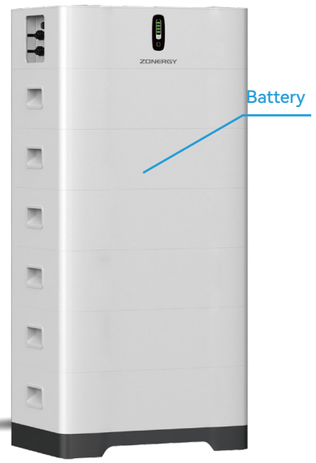
Panda

Residential Three-phase Energy Storage System Panda Series

Panda 8000T~15kT-10HS~60HS

ZONERGY



The Lithium Iron Phosphate (LFP) cell secures safe and reliable operation.

The automatic isolation of the faulty battery module secures smooth system operation.

The module adopted enables variable capacity range of 10-60 kWh.

The switching time between on-off grid less than 10 ms secures Uninterruptable Power Supply for the load.

The APP-based remote monitoring offers easy maintenance and unlimited function expansion.

The built-in Smart Grid Management module enables power grid dispatching.

IP66

The Degree of Protection at IP66 makes it suitable for various harsh environments for application.

Residential Energy Storage Application Scenarios: Energy Storage + X

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Residential Energy Storage


Residential Photovoltaic Energy Storage


Residential Photovoltaic Energy Storage and Charging


Residential Photovoltaic Energy Savings


Residential Photovoltaic Energy Storage Heat Pump

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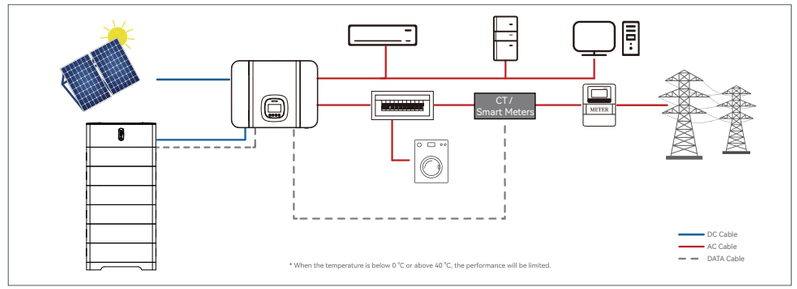
System Demo	 Flexible combination of 4-12 battery modules			

	System Specification			
Nominal Output Power	8000 W	10 kW	12 kW	15 kW
Capacity Range	10-60 kWh			
Usable Capacity Range	9-54 kWh			
Battery Chemistry	LFP (LiFePO4)			
IP Protection	IP66 (Outdoor)			

	Inverter Technical Specification			
Model	Venus 8000-T1	Venus 10K-T1	Venus 12K-T1	Venus 15K-T1
Phase	Three Phase			
Max. PV Input Voltage	1000 V			
MPPT Voltage Range	160 V ~ 1000 V			
Max. PV Input Current	16 A		20 A	
Max. PV Input Power	12 kW	15 kW	26 kW	
Number of Independent MPPT	2			
Start-up Voltage Range	180 V			
Battery Voltage Range	180 V - 710 V			
Max. Charging/Discharging Current	30 A			
Max. Charging/Discharging Power	8 kW	10 kW	12 kW	
Nominal Output Voltage on Grid	400V			
Output Voltage Range on Grid	320 V ~ 480 V			
Nominal Output Frequency on Grid	50 Hz / 60 Hz			
Rated Grid Output Frequency on Grid	45~55Hz / 55~65Hz (comply with local regulations)			
Max. AC output Power	8.8 kW	11 kW	13.2 kW	16.5 kW
Communication	RS485/WIFI/4G(optional)			
Display	LED+bluetooth+APP			
Dimension(W*H*D) mm	420 x 520 x226			
Certification	NBT32004，IEC62109，IEC61727，IEC61683，IEC62116，Italy CEI 0-21, Germany VDE4105，EN62109-1/-2，EN62920，EN61000-6-1/-3，EN50549-1，VDE4105，UK G99/G100			

	Battery Technical Specification
Module Model	Limestone 10HS~Limestone 60HS
Number of modules	4~12
Module Capacity	10 kWh~60 kWh
Nominal Voltage	204.8 V~614.4 V
Max. Operating Current	25 A
Operating Temperature Range	-20 ~ +50 ℃
Certification	IEC62619, IEC63056, EN IEC61000-6-1, IEC61000-6-3, EN IEC62040-1, EN IEC62477-1 IEC60529 IP66, UN38.3, MSDS, RoHS(2011/65/EU+2015/863), WEEE(2012/19/EU), ISTA



Note: Technical parameters listed hereunder are for reference only. Actual parameters shall be subject to products shipped.

Mercury

Residential Single-phase On-grid PV Inverter Mercury Series

Mercury 3000-S1~6000-S1

Intelligent adaptive weak power grid to avoid frequent disconnection.

Independent dual MPPT tracking adaptable to different installation scenarios.

This product supports remote parameter setting, fault diagnosis and software upgrade.

This product with a variety of monitoring modes supports RS485, Wi-Fi/Ethernet/GPRS.

IP66

The Degree of Protection at IP66 makes it suitable for various harsh environments for application.

Wide DC voltage range and longer power generation duration.

On-Grid application scenarios and application modes

- Distributed photovoltaic systems mainly include photovoltaic modules, inverter, electricity meters, etc., and are mostly designed in a series and scalable manner;
- The main application scenarios of Mercury are households, photovoltaic sheds, etc;
- The application modes mainly include three types: full self-use, self-use and balance sold to grid, and fully sold to grid.

Mercury 3000-S1~6000-S1
Technical parameters

Technical parameters:	Mercury 3000-S1	Mercury 3680-S1	Mercury 4000-S1	Mercury 4600-S1	Mercury 5000-S1	Mercury 6000-S1
	Input (DC)					
Maximum panel input power recommended	4900 Wp	5520 Wp	6000 Wp	6900 Wp	7500 Wp	9000 Wp
Maximum input voltage	600 V					
Start-up input voltage	120 V					
Rated input voltage	360 V					
MPPT voltage range	100 V-550 V					
Full load DC voltage range	250 V-520 V					
Number of independent MPPT	2					
Strings	1/1					
Maximum Input current	16 A/16 A					
Maximum short circuit current	20 A /20 A					
	Output (AC)					
Rated output power	3000 W	3680 W	4000 W	4600 W	5000 W	6000 W
Maximum output current	13 A	16 A	17.4 A	20 A	21.7 A	26 A
Nominal grid voltage	L/N/PE, 220Vac, 230Vac, 240Vac					
Nominal AC voltage range	180 VAC-276 VAC (according to local standard)					
Rated grid frequency	50 Hz/ 60 Hz					
Grid frequency range	45 Hz-55 Hz/54 Hz-66 Hz (according to local standard)					
Active power adjustable range	0~100%					
Total harmonic component (current)	<3%					
Power Factor	1 (adjustable range: 0.8 leading ~ 0.8 lagging)					
	Efficiency					
Maximum efficiency	97.60%			97.70%	97.80%	
European weighted efficiency	97.10%			97.20%	97.30%	
MPPT efficiency	>99.9%					
	Protection					
Insulation impedance detection	yes					
DC reverse connection protection	yes					
Ground fault monitoring	yes					
Over-current protection	yes					
DC switch	yes					
AFCI protection	optional					
	General parameters					
Ambient temperature range	-25 ~ + 60 ℃					
Stand-by loss	<10 W					
Topology	no transformer					
Degrees of protection	IP66					
Relative Humidity range allowed	0~100%					
Communication	RS485, WIFI / 4G (optional)					
Protection level	Class I					
Maximum altitude for product operation	3000m(>2000m Rating reduction occurs)					
Connection mode of current sensor	external					
Noise	<29 dB					
Weight	11 kg					
Cooling mode	natural cooling					
Dimension (mm)	350*350*155					
Display	LED indicator light, Bluetooth / WIFI + APP					
	Other					
Certification	EN IEC62109-1, EN IEC62109-2, IEC61683, IEC61727, IEC62116, IEC60068, EN IEC61000-6-1, EN IEC61000-6-3, EN50530, IEC60529 IP66, RoHS(2011/65/EU+2015/863), WEEE(2012/19/EU), ISTA, CQC NB/T32004, GB/T37408					
Warranty	5 Years					

Note: Technical parameters listed hereunder are for reference only. Actual parameters shall be subject to products shipped.

Apollo

Residential Three-phase On-grid PV Inverter Apollo Series

Apollo 8000-T1~15K-T1

DC to AC capacity ratio can reach as high as 1.5 times.

DC arcing detection function can be selected to eliminate potential fire hazards.

IP66

The Degree of Protection at IP66 makes it suitable for various harsh environments for application.

1.1

The product supports output of 1.1 times overload. This effectively increases power generation.

The adaptive control algorithm adopted ensures the product fit for unstable grid.

Flexible monitoring modes support RS485, Wi-Fi and GPRS.

On-Grid application scenarios and application modes

- Distributed photovoltaic systems mainly include photovoltaic modules, inverter, electricity meters, etc., and are mostly designed in a series and scalable manner;
- The main application scenarios of Apollo include households, industrial and commercial roofs, residential buildings, PV+(BIPV, transportation, agriculture, gas stations, water plants, carports, etc.), microgrids, etc;
- The application modes mainly include three types: full self-use, self-use and balance sold to grid, and fully sold to grid.

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Apollo 8000-T1~15K-T1
Technical parameters

Technical parameters:	Apollo 8000-T1	Apollo 10K-T1	Apollo 12K-T1	Apollo 15K-T1
Input parameters (DC)				
Max. panel input power recommend (kW)	12	15	18	22.5
Max. DC input voltage (V)	1100			
Max. input current of each MPPT (A)	16		20	
Short circuit current of each MPPT (A)	25		30	
No. of MPPT	2		2	
Strings	1+1		2+2	
Start-up voltage (V)	180			
MPPT Voltage range (V)	160V~1000			
Full-load MPPT Voltage range (V)	550~850			
Rated Input Voltage (V)	600			
Output parameters (AC)				
Rated output power (kW)	8.8kW@40℃ 8kW@45℃	11kW@40℃ 10kW@45℃	13.2kW@40℃ 12kW@45℃	16.5kW@40℃ 15kW@45℃
Max. output power (kW)	8.8	11	13.2	16.5
Output connection type	3W+PE or 3W+N+PE			
Rated voltage/Voltage range (V)	400/320~480			
Rated grid frequency	45~55Hz / 55~ 65Hz (According to local grid standards)			
Rated output current (A)	12.2	15.2	18.2	22.8
Maximum output current (A)	13.4	16.7	20.1	25.1
Power Factor (settable)	> 0.99 @ full power (adjustable range: 0.8 leading ~ 0.8 lagging)			
Total Harmonic Distortion THDi (full load)	< 3% (full load)			
Efficiency				
MPPT efficiency	99.9%			
Maximum efficiency	98.4%			
Euro. efficiency	97.8%		98.5%	
China efficencty	97.5%		98.0%	
			97.8%	
Protection function				
DC switch	yes			
Output short circuit protection	yes			
Power grid fault monitoring	yes			
DC reverse connection detection	yes			
String monitoring	yes			
DC lightning protection	type II			
AC lightning protection	type II			
DC insulation impedance detection	yes			
AC leakage current detection	yes			
Over-temperature protection	yes			
DC component monitoring	yes			
Islanding detection	yes			
Smart IV diagnosis	yes			
Auxiliary power supply detection	yes			
Bus voltage monitoring	yes			
PID repair and protection	optional			
Arc fault detection	optional			
Remote upgrade and setup	yes			
anti-counterflow meter	optional			
Fault recorded	yes			
Display and communication				
Display mode	LED indicator light, Bluetooth / WIFI + APP			
Communication mode	RS485, WIFI / 4G (optional)			
General parameters				
Dimension (mm) (W×H×D)	518x422x208.5			
Weight (kg)	20			
Operating temperature range	-25℃ ~ +60℃			
Cooling mode	Air colling without fan			
Maximum altitude for product operation	3000m (> 2000m Rating reduction occurs)			
Relative Humidity	0~100%			
Input terminal	MC4			
Output terminal	OT/DT terminal (Max. 50mm^2 cable section)			
Degree of protection	IP66			
Self power consumption at night	<1W			
Noise (dB)	<35			
Topology	no transformer			
Other				
Certification	EN IEC62109-1, EN IEC62109-2, IEC61683, IEC61727, IEC62116, IEC60068, EN IEC61000-6-2, EN IEC61000-6-4, EN50530, IEC60529 IP66, RoHS(2011/65/EU+2015/863), WEEE(2012/19/EU), ISTA, CQC NB/T32004, GB/T37408			
Warranty	5 Years			

Note: Technical parameters listed hereunder are for reference only. Actual parameters shall be subject to products shipped.

Na

Long cycle/high capacity series sodium-ion battery cell

NFPP72174205-EA165/NFPP72174205-EA175

Ultra-safe
Passed TÜV SÜD safety tests including projectile fire test, overcharge/overdischarge, short circuit, thermal abuse, and nail penetration
Maximum battery cell surface temperature ≤60℃ during nail penetration test

Ultra-low temperature endurance
-20℃, 94% capacity retention rate
-60℃, 81% capacity retention rate

Ultra-high rate
3C discharge capacity retention rate ≥97.2% (90% group standard)
Customizable solutions supporting 20C+ rates for specific applications

Ultra-long life
0.5P charge/discharge cycle at room temperature, 95% capacity retention rate after 1,000 cycles (tested)
Projected cycle life exceeds 6,000 cycles at 80% SOH

Convenient and safe storage and transportation
Capable of 100% capacity recovery after discharging to 0V, allowing safe storage and transportation at zero-voltage state
Maintains 40% SOC at shipment with self-discharge to zero voltage in up to 2.5 years

Technical parameters:	NFPP72174205-EA165	NFPP72174205-EA175
Standard capacity	165Ah (tested 172Ah)	175Ah (tested 182Ah)
Operating voltage	1.5~3.4V (≥0℃) 1.2~3.4V (< 0℃)	1.5~3.4V (≥0℃) 1.2~3.4V (< 0℃)
Nominal voltage	2.83V@0.5P	2.83V@0.5P
Internal resistance of battery	< 0.25mΩ	< 0.2mΩ
Monthly self-discharge	≤5.0%/month	≤5.0%/month
Operating temperature (charging)	-10~60℃	-10~60℃
Operating temperature (discharging)	-60~60℃	-60~60℃
Battery weight	4700±100g	4650±100g
Storage temperature	-60~60℃	-60~60℃
Battery size	Width: 173.6±0.3mm Height: 206.8±0.5mm Thickness: 71.7±0.5mm	Width: 173.6±0.3mm Height: 206.8±0.5mm Thickness: 71.5±0.5mm
Operating altitude	< 6000m	< 6000m
Cycle life	> 8000Cycles, 80%SOH	> 6000Cycles, 80%SOH

Application areas:

The long-cycle/high-capacity series sodium-ion battery cells are valued for their excellent energy density, ultra-long cycle life, outstanding low-temperature and safety performance, combined with convenient modular design, which significantly enhances cost-effectiveness and economic benefits, making them highly suitable for widespread applications in energy storage field.

Application scenarios:

Energy storage, special vehicles, start-stop power supplies, and other applications that require moderate energy density but are relatively sensitive to safety and cost.

Sodium-ion battery and Photovoltaic-storage-charging

Special vehicles

Start-stop power supply