

# PowerFirst Energy Storage System for Residential and Commercial Facilities

Safe  
Renewable  
Reliable  
Efficient



**5KWH**  
(MPPT+BATTERY+INVERTER 3 in 1)  
Energy Storage System



**10KWH**  
(MPPT+BATTERY+INVERTER 3 in 1)  
Modular & Stacked Energy Storage System



New Energy · New Life · New Future

A Global Leader in Power Manufacture  
Advanced Solar energy system Solutions

**Off Grid  
Solar Product  
Manufacturers**  
-Since 2003



PowerFirst Technology Company Limited  
Web: [www.epowerfirst.com](http://www.epowerfirst.com)  
Tel: +86 755 28441619 +86 769 87771901  
M: +86 1890244 9217 (Jason) M: +86 13713917197 (Star)  
Email: [jason@epowerfirst.com](mailto:jason@epowerfirst.com) [marketing@epowerfirst.com](mailto:marketing@epowerfirst.com)  
Business Segment: lean manufacturing services for photovoltaic inverter, charging pile module, OBC, energy storage power supply and battery charger



PRODUCT  
CATALOGUE

# COMPANY PROFILE

PowerFirst was established in 2003, specialized in R&D and manufacturing of solar power system products, inverters and battery chargers, which is a high-tech enterprise certificated.

PowerFirst main products include:

Solar charge controller, Solar power system, Lithium energy storage battery, Lead-acid gel battery, UPS, inverters, OBC, EV charging pile module, battery chargers, etc.

15000 m<sup>2</sup>

Production Space

2

Factories

200+

Employees

10+

Automatic  
Production Lines

26+

Million USD  
Investment



PF-S High Quality  
Modular&Stacked  
Lithium Battery  
System



PF-A Solar Power  
System



PF-B Solar Energy  
System



PF-C Series Pure Sine  
Wave Inverter With  
Charger



PF-D Series Pure Sine  
Wave Inverter With  
Charger



PF-E Single-phase  
IGBT Low Frequency  
Inverter



PF-F Three-phase IGBT  
Low Frequency  
Inverter



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NEW ENERGY • NEW LIFE • NEW FUTURE



High Quality / Intelligent / Modular  
lithium battery ESS  
51.2V 100-900Ah  
(4000 Cycles)



■ DIY on capacity of inverter and battery module

Product Details:



PF-S High Quality Modular&Stacked Lithium Battery System  
(PF-S5KW、PF-S10KW)

MAIN FEATURES

- Optional cell brand and IP rate (IP20/IP65)
- Modular & Stacked design for easy installation and extension
- With LCD screen and CAN/RS485 /RS232 communication interface



Inverter Parameter Table

| Model:PF-S                   |                                                                                    | PF-S5KW                                                                    | PF-S10KW                       |
|------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------|
| Rated Power                  |                                                                                    | 5KW                                                                        | 10KW                           |
| Mains Input                  | Rated Input Voltage (Settable)                                                     | 208VAC/220VAC/230VAC/240VAC                                                |                                |
|                              | Mains Supply Input Voltage Range                                                   | 170-280VAC; 90-280VAC                                                      |                                |
|                              | Mains Supply Input Frequency                                                       | 50Hz/60Hz(Auto detection)                                                  |                                |
|                              | Rated Output Voltage (settable)                                                    | 208VAC/220VAC/230VAC/240VAC ±5%                                            |                                |
| Output                       | Surge Power                                                                        | 20000VA                                                                    |                                |
|                              | Efficiency                                                                         | 94%                                                                        |                                |
|                              | Switching Time                                                                     | 10ms                                                                       |                                |
|                              | Overload power                                                                     | 1min@102%-110% Load, 10s@110%-130% Load, 3s@130%-150% Load,0.2s@>150% Load |                                |
| Battery And AC Charging      | Battery Voltage Rating                                                             | 51.2VDC                                                                    |                                |
|                              | Floating Charge Voltage                                                            | 54VDC                                                                      |                                |
|                              | Overcharge Protection                                                              | 64VDC                                                                      |                                |
|                              | Maximum Charging Current                                                           | 80A                                                                        | 160A                           |
| PV Charging                  | Maximum PV Array Power                                                             | PV 5500w                                                                   | 1 way PV 5500w; 2 way PV 5500w |
|                              | MPPT Range Operating Voltage                                                       | 120-430VDC                                                                 |                                |
|                              | Maximum PV Array Open Circuit Voltage                                              | 450VDC                                                                     |                                |
|                              | Maximum Charge Current                                                             | 80A                                                                        | 160A                           |
| Mains Supply And PV Charging | Maximum Efficiency                                                                 | 98%                                                                        |                                |
|                              | Mains Supply and PV charging Maximum charging current (AC charger plus PV charger) | 80A                                                                        | 160A                           |
| Basic Specifications         |                                                                                    | vUSB/RS232/GPRS/WIFI                                                       |                                |
| Working Environment          | Humidity                                                                           | 5% to 95% relative humidity(non-condensing)                                |                                |
|                              | Operating Temperature Range                                                        | 0°C-55°C                                                                   |                                |
|                              | Storage Temperature                                                                | -15°C-60°C                                                                 |                                |
| Dimension (L*W*H)            |                                                                                    | 770*410*222.5mm                                                            | 930*410*222.5mm                |

# PF-A Solar Power System

(PF-A600、PF-A1200、PF-A2200、PF-A3000、PF-A5000)

## MAIN FEATURES

- Overcharge protection and overdischarge protection for a longer battey life
- LCD and LEDS for visualization of operation status of the equipment
- Solar array and battery connrnnon-anode system input;



# PF-B Solar Energy System

LiFePO4 Battery Inbuilt (Solar Generator)  
(PF-B2000、PF-B3000、PF-B4000、PF-B5000、PF-B6000)

## MAIN FEATURES

- Combined power inverter, MPPT solar charge controller
- Simple installation and free maintenance to user
- Pure sine wave inverter power supply stable electricity to house appliances



## Product Specifications

| Model:PF-A  |                                    | PF-A600                                        | PF-A1200    | PF-A2200    | PF-A3000                | PF-A5000    |
|-------------|------------------------------------|------------------------------------------------|-------------|-------------|-------------------------|-------------|
| Inverter    | Battery Voltage                    | 12.8V                                          | 25.6V       |             |                         |             |
|             | In-built Battery Specification     | 50AH/12.8V                                     | 50AH/25.6V  | 100AH/25.6V | 100AH/150AH/200AH*51.2V |             |
|             | Rated Power                        | 600W                                           | 1200W       | 2200W       | 3000W                   | 5000W       |
|             | Output Voltage                     | 110/220VAC                                     |             |             |                         |             |
|             | Output Frequency                   | 50/60Hz                                        |             |             |                         |             |
|             | Output Waveform                    | Pure Sine Wave                                 |             |             |                         |             |
|             | Input Voltage Range                | 72-138/145-275VAC                              |             |             | 85-138/170-275VAC       |             |
|             | Input Frequency                    | 45-65Hz                                        |             |             |                         |             |
| MPPT Charge | Maximum Photovoltaic Voltage       | ≤100V                                          | ≤100V       |             | ≤150V                   |             |
|             | PV Input Range Voltage             | 18-100V                                        | 35-100V     |             | 60-150V                 |             |
|             | Rated Charge Current               | MPPT 30A                                       | MPPT 30A    |             | 30A(MAX.)               | 60A(MAX.)   |
|             | Maximum Power                      | 420Wp                                          | 840Wp       |             | 1500Wp                  | 3000Wp      |
|             | Voltage Of Floating Charge         | 14.2V                                          | 28.4V       |             | 56.8V                   |             |
|             | MPPT Efficiency                    | ≥97%                                           |             |             |                         | ≥99%        |
| DC Output   | Voltage Of High-voltage Protection | 16V                                            | 32V         |             | 64V                     |             |
|             | Voltage Of High Voltage Recovery   | 14.5V                                          | 29V         |             | 58V                     |             |
|             | Voltage Of Low Voltage Recovery    | 13V                                            | 26V         |             | 52V                     |             |
|             | Voltage Of Low Voltage Protection  | 11.2V                                          | 22.4V       |             | 44.8V                   |             |
|             | 5VDC USB Output Port               | 2 Units/MAX 2A                                 |             |             |                         |             |
|             | 12VDC Output Port                  | 2DC Ports/MAX 2A                               |             |             |                         |             |
| Other       | Heat Dissipation/Cooling           | Temperature Control By Intelligent Exhaust Fan |             |             |                         |             |
|             | Ambient Temperature For Operation  | -20-+50℃                                       |             |             |                         |             |
|             | Ambient Temperature For Storage    | -25 -+55℃                                      |             |             |                         |             |
|             | Operation/Storage Conditions       | 0-90% (no condensation)                        |             |             |                         |             |
|             | External Dimensions: DxWxH (mm)    | 460*182*397                                    | 485*202*406 | 500*229*464 | 577*350*644             | 627*405*664 |
|             | Packing Dimensions: DxWxH (mm)     | 527*267*470                                    | 552*277*477 | 570*310*535 | 665*450*825             | 715*505*845 |

## Product Specifications

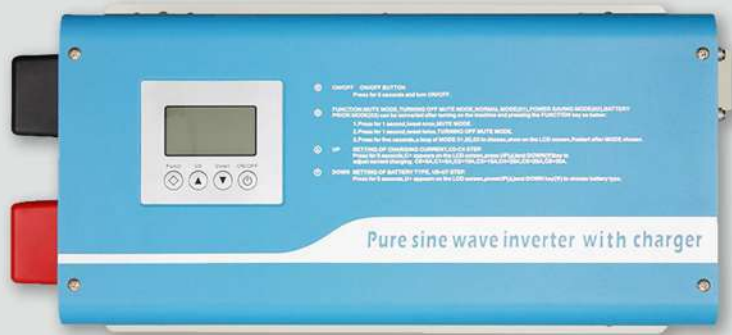
| Model:PF-B       |                                | PF-B2000                                       | PF-B3000 | PF-B4000   | PF-B5000 | PF-B6000 |
|------------------|--------------------------------|------------------------------------------------|----------|------------|----------|----------|
| Inverter         | Battery/System Voltage         | 51.2VDC/48VDC                                  |          |            |          |          |
|                  | Built-in LiFePO4 Lithium       | 100AH/150AH/200AH*51.2V                        |          |            |          |          |
|                  | Rated Power                    | 2000W                                          | 3000W    | 4000W      | 5000W    | 6000W    |
|                  | Input Voltage (VAC)            | 85-138VAC/170-275VAC                           |          |            |          |          |
|                  | Input Frequency (Hz)           | 45-65                                          |          |            |          |          |
|                  | Output Voltage (VAC)           | 110/220                                        |          |            |          |          |
|                  | Output Frequency (Hz)          | 50/60                                          |          |            |          |          |
|                  | Output Wave                    | Pure Sine Wave                                 |          |            |          |          |
| MPPT Solar Input | MPPT Voltage Range             | 60VDC-150VDC                                   |          |            |          |          |
|                  | PV Power                       | 1500W                                          |          | 3000W      |          |          |
|                  | Rated Charge Current           | 30A (Max.)                                     |          | 60A (Max.) |          |          |
|                  | MPPT Efficiency                | ≥99%                                           |          |            |          |          |
|                  | Floating Charge Voltage        | 57.6VDC                                        |          |            |          |          |
|                  | Maximum Power                  | 3200Wp                                         |          |            |          |          |
| DC Output        | Low Voltage Recovery Voltage   | 57.6VDC                                        |          |            |          |          |
|                  | Low Voltage Protection Voltage | 53.6VDC                                        |          |            |          |          |
|                  | 5VDC USB Output                | 2PCS/Max.2A                                    |          |            |          |          |
|                  | 12VDC Output Ports             | 2PCS/Max.2A                                    |          |            |          |          |
| Other Parameters | Operating Ambien Temperature   | -20°C-50°C                                     |          |            |          |          |
|                  | Storage Ambient Temperature    | -25°C-55°C                                     |          |            |          |          |
|                  | Operating/Storage Ambient      | 0-90% No Condensation                          |          |            |          |          |
|                  | Heat Dissipation/Cooling       | Temperature Control By Intelligent Exhaust Fan |          |            |          |          |
|                  | Display                        | Digital LCD                                    |          |            |          |          |
|                  | Packing Dimensions: DxWxH (mm) | 620*420*580                                    |          |            |          |          |

PF-C Series Pure Sine Wave Inverter With Charger

(PF-C1000、PF-C1500、PF-C2000、PF-C3000、PF-C4000、PF-C5000、PF-C6000、PF-C8000、PF-C10000)

MAIN FEATURES

-  Pure sine wave output for compatibility with loads of different types
-  Visualization of operation status of the equipment through a digital LCD
-  A wide range of input voltage, accurate output and automatic voltage stabilization



PF-D Series Pure Sine Wave Inverter With Charger

(PF-D300、PF-D500、PF-D700、PF-D1000)

MAIN FEATURES

-  Pure sine wave output for compatibility with loads of different types
-  Visualization of operation status of the equipment through a digital LCD
-  A wide range of input voltage, accurate output and automatic voltage stabilization



Product Specifications

| Model:PF-C                |                                  | PF-C1000                                                                                                                                         | PF-C1500 | PF-C2000 | PF-C3000 | PF-C4000    | PF-C5000 | PF-C6000    | PF-C8000    | PF-C10000 |
|---------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|-------------|----------|-------------|-------------|-----------|
| Rated Power               |                                  | 1000W                                                                                                                                            | 1500W    | 2000W    | 3000W    | 4000W       | 5000W    | 6000W       | 8000W       | 10000W    |
| Battery                   | Rated Voltage                    | 12VDC/24VDC/48VDC                                                                                                                                |          |          |          | 24VDC/48VDC |          | 48VDC/96VDC |             |           |
|                           | Charge Current                   | 30A (default) -CO-C6                                                                                                                             |          |          |          |             |          |             |             |           |
|                           | Battery Type                     | U0-U7                                                                                                                                            |          |          |          |             |          |             |             |           |
| Input                     | Voltage Range                    | 85-138VAC/170-275VAC                                                                                                                             |          |          |          |             |          |             |             |           |
|                           | Frequency                        | 45-65Hz                                                                                                                                          |          |          |          |             |          |             |             |           |
|                           | Product Size:L*W*H(mm)           | 486*247*179                                                                                                                                      |          |          |          | 555*307*189 |          |             | 653*332*260 |           |
|                           | Package Size: L*W*H(mm)          | 550*310*230                                                                                                                                      |          |          |          | 640*370*240 |          |             | 715*365*310 |           |
| Output                    | Voltage Range                    | 110VAC/220VAC; ±5%( Inversion mode)                                                                                                              |          |          |          |             |          |             |             |           |
|                           | Frequency                        | 50/60Hz±1%( Inversion mode)                                                                                                                      |          |          |          |             |          |             |             |           |
|                           | Output Wave                      | Pure Sine Wave                                                                                                                                   |          |          |          |             |          |             |             |           |
|                           | Conversion Time                  | <10ms(Typical load)                                                                                                                              |          |          |          |             |          |             |             |           |
|                           | Efficiency                       | >85% (80% resistive load)                                                                                                                        |          |          |          |             |          |             |             |           |
|                           | Overload                         | 110-120%/30S; >160%/300ms;                                                                                                                       |          |          |          |             |          |             |             |           |
|                           | Protection Function              | Battery overvoltage protection, battery undervoltage protection, overload,protection, short circuit protection, overtemperature protection, etc. |          |          |          |             |          |             |             |           |
|                           | Operation Of Ambient Temperature | 0-40℃                                                                                                                                            |          |          |          |             |          |             |             |           |
|                           | Ambient Temperature For Storage  | -15-+50℃                                                                                                                                         |          |          |          |             |          |             |             |           |
| Operation/Storage Ambient |                                  | 0-90% No Condensation                                                                                                                            |          |          |          |             |          |             |             |           |

P.S.: We keep the right to change without any information.

Product Specifications

| Model:PF-D  |                                  | PF-D300                                                                                                                                          | PF-D500 | PF-D700 | PF-D700     | PF-D1000    |
|-------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|-------------|-------------|
| Rated Power |                                  | 300W                                                                                                                                             | 500W    | 700W    | 700W        | 1000W       |
| Battery     | Rated Voltage                    | 12VDC/24VDC                                                                                                                                      |         | 24VDC   | 12VDC       | 12VDC/24VDC |
|             | Voltage Range                    | 73-138VAC/145-275VAC                                                                                                                             |         |         |             |             |
| Input       | Frequency                        | 45-65Hz                                                                                                                                          |         |         |             |             |
|             | Product Size:L*W*H(mm)           | 302*122*188                                                                                                                                      |         |         | 316*149*215 |             |
|             | Package Size: L*W*H(mm)          | 375*195*260                                                                                                                                      |         |         | 410*215*280 |             |
|             |                                  |                                                                                                                                                  |         |         |             |             |
| Output      | Voltage Range                    | 110VAC/220VAC; ±5%( Inversion mode)                                                                                                              |         |         |             |             |
|             | Frequency                        | 50/60Hz±1%( Inversion mode)                                                                                                                      |         |         |             |             |
|             | Output Wave                      | Pure Sine Wave                                                                                                                                   |         |         |             |             |
|             | Conversion Time                  | <10ms(Typical load)                                                                                                                              |         |         |             |             |
|             | Efficiency                       | >85% (80% resistive load)                                                                                                                        |         |         |             |             |
|             | Overload                         | 110-120%/30S; >160%/300ms;                                                                                                                       |         |         |             |             |
|             | Protection Function              | Battery overvoltage protection, battery undervoltage protection, overload,protection, short circuit protection, overtemperature protection, etc. |         |         |             |             |
|             | Operation Of Ambient Temperature | 0-40℃                                                                                                                                            |         |         |             |             |
|             | Ambient Temperature For Storage  | -15-+50℃                                                                                                                                         |         |         |             |             |
|             | Operation/Storage Ambient        | 0-90% No Condensation                                                                                                                            |         |         |             |             |

P.S.: We keep the right to change without any information.

PF-E Single-phase IGBT Low Frequency Inverter

(PF-E6KW、PF-E8KW、PF-E10KW、PF-E12KW、PF-E20KW、PF-E30KW)

MAIN FEATURES

- A wide range of input frequency, which realizes stable operation of fuel generators
- A power-on test function, which can avoid the faults because of hazards of the inverter
- Overall automatic protection and alarms such as output overload protection



Product Specifications

| Model:PF-E                   |                                  | PF-E6KW                                                                                                                                          | PF-E8KW | PF-E10KW | PF-E12KW                   | PF-E15KW | PF-E20KW    | PF-E30KW     |
|------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|----------------------------|----------|-------------|--------------|
| Rated Power                  |                                  | 6KW                                                                                                                                              | 8KW     | 10KW     | 12KW                       | 15KW     | 20KW        | 30KW         |
| Battery                      | Rated Voltage                    | 96VDC/192VDC                                                                                                                                     |         |          | 192VDC                     |          |             |              |
|                              | Charge Current                   | 10A-20A                                                                                                                                          |         |          |                            |          |             |              |
|                              | Low Voltage Protection           | 84VDC/168VDC                                                                                                                                     |         |          | 168VDC                     |          |             |              |
| Input                        | Voltage Range                    | 88-132VAC/176-264VAC                                                                                                                             |         |          |                            |          |             |              |
|                              | Frequency                        | 45-65Hz                                                                                                                                          |         |          |                            |          |             |              |
| Output                       | Voltage Range                    | 110VAC/220VAC; ±5%( Inversion mode)                                                                                                              |         |          |                            |          |             |              |
|                              | Frequency                        | 50/60Hz±1%( Inversion mode)                                                                                                                      |         |          |                            |          |             |              |
|                              | Output Wave                      | Pure Sine Wave                                                                                                                                   |         |          |                            |          |             |              |
|                              | Conversion Time                  | <10ms(Typical load)                                                                                                                              |         |          |                            |          |             |              |
|                              | Efficiency                       | >85% (100% Resistive Load)                                                                                                                       |         |          | >90% (100% Resistive Load) |          |             |              |
|                              | Overload                         | 110-120%/30S; >160%/300ms;                                                                                                                       |         |          |                            |          |             |              |
|                              | Protection Function              | Battery overvoltage protection, battery undervoltage protection, overload,protection, short circuit protection, overtemperature protection, etc. |         |          |                            |          |             |              |
|                              | Operation Of Ambient Temperature | 0-40℃                                                                                                                                            |         |          |                            |          |             |              |
|                              | Ambient Temperature For Storage  | -15-+50℃                                                                                                                                         |         |          |                            |          |             |              |
|                              | Operation/Storage Ambient        | 0-90% No Condensation                                                                                                                            |         |          |                            |          |             |              |
| Product Dimensions:DxWxH(mm) |                                  | 638*260*750                                                                                                                                      |         |          |                            |          | 690*370*810 | 740*720*1340 |
| Gross Weight (KG)            |                                  | 80                                                                                                                                               | 90      | 110      | 130                        | 150      | 170         | 227          |

PF-F Three-phase IGBT Low Frequency Inverter

(PF-F10KW、PF-F20KW、PF-F30KW、PF-F50KW、PF-F60KW、PF-F80KW、PF-F100KW、PF-F150KW、PF-F200KW)

MAIN FEATURES

- Intelligent battery charge
- Efficient IGBT (Insulated Gate Bipolar Transistor) inversion technology
- Suitability for industrial applications such as machine tools and wire cutters



Product Specifications

| Model:PF-F                     |                                     | PF-F10KW                                                                                                                                     | PF-F20KW | PF-F30KW | PF-F50KW | PF-F60KW           | PF-F80KW      | PF-F100KW | PF-F150KW | PF-F200KW     |  |
|--------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|--------------------|---------------|-----------|-----------|---------------|--|
| Rated Power                    |                                     | 10KW                                                                                                                                         | 20KW     | 30KW     | 50KW     | 60KW               | 80KW          | 100KW     | 150KW     | 200KW         |  |
| Working methods and principles |                                     | PWM (pulse width modulation) based on DSP accurate control technology and double built-in MCUs Complete isolation of the outout power supply |          |          |          |                    |               |           |           |               |  |
| AC Input                       | Phase                               | Three phase N+G                                                                                                                              |          |          |          |                    |               |           |           |               |  |
|                                | Voltage                             | AC220V/AC380V±20%                                                                                                                            |          |          |          |                    |               |           |           |               |  |
|                                | Frequency                           | 50Hz/60Hz+5%                                                                                                                                 |          |          |          |                    |               |           |           |               |  |
| DC Input                       | DC voltage                          | DC192V/DC220V/DC240V/DC384V                                                                                                                  |          |          |          | DC384V             |               |           |           |               |  |
|                                | Floating battery                    | 13.6V of each battery x battery quantity [13.6Vx 16 batteries = 217.6V]                                                                      |          |          |          |                    |               |           |           |               |  |
|                                | Cut-off voltage                     | 10.8V of each battery x battery quantity [10.8Vx 16 batteries =172.8V]                                                                       |          |          |          |                    |               |           |           |               |  |
| AC Output                      | Phase                               | Three phase N+G                                                                                                                              |          |          |          |                    |               |           |           |               |  |
|                                | Voltage                             | AC220V/AC380V ± 1% (steady load)                                                                                                             |          |          |          |                    |               |           |           |               |  |
|                                | Frequency                           | 50Hz/60Hz+5%(mains) 50Hz+0.5% (battery)                                                                                                      |          |          |          |                    |               |           |           |               |  |
|                                | Efficiency                          | ≥90% (Load100%)                                                                                                                              |          |          |          |                    |               |           |           |               |  |
|                                | Output wave form                    | Sine wave                                                                                                                                    |          |          |          |                    |               |           |           |               |  |
|                                | Total harmonic distortion           | Linear load<3%. Non-linear loads<5%                                                                                                          |          |          |          |                    |               |           |           |               |  |
|                                | Dynamic load voltage                | <±5% (From 0 to 100%)                                                                                                                        |          |          |          |                    |               |           |           |               |  |
|                                | Instant recovery time               | <100ms                                                                                                                                       |          |          |          |                    |               |           |           |               |  |
|                                | Battery and mains switching         | 3S-5S                                                                                                                                        |          |          |          | <4ms               |               |           |           |               |  |
|                                | Unbalanced voltage                  | <±3% <±1% (Unbalanced load voltage)                                                                                                          |          |          |          |                    |               |           |           |               |  |
| System Specifications          | Overload                            | 120%, 20s; > 150%, 100ms                                                                                                                     |          |          |          | 125%,20s;> 150%,1s |               |           |           |               |  |
|                                | Working efficiency                  | ≥90% (load: 100%)                                                                                                                            |          |          |          |                    |               |           |           |               |  |
|                                | Computer communication              | RS232/485 (SNMP Remote Monitoring Network Adapters)                                                                                          |          |          |          |                    |               |           |           |               |  |
|                                | Operating temperature               | -10-40℃                                                                                                                                      |          |          |          |                    |               |           |           |               |  |
|                                | Relative humidity (no condensation) | 0.90% (no condensation)                                                                                                                      |          |          |          |                    |               |           |           |               |  |
| Structure                      | Noise from the machine 1M           | 40-50dB                                                                                                                                      |          |          |          | 50-60dB            |               |           |           |               |  |
|                                | Dimensions:D×W×H(mm)                | 580*750*920                                                                                                                                  |          |          |          | 608*728*1475       | 1138*795*1725 |           |           | 1138*945*1725 |  |
|                                | Weight (Kg)                         | 180                                                                                                                                          | 220      | 300      | 470      | 620                | 680           | 730       | 954       | 980           |  |



# PowerFirst

## 顶尖电源

Off Grid Solar Product Manufacturers

New Energy · New Life · New Future