

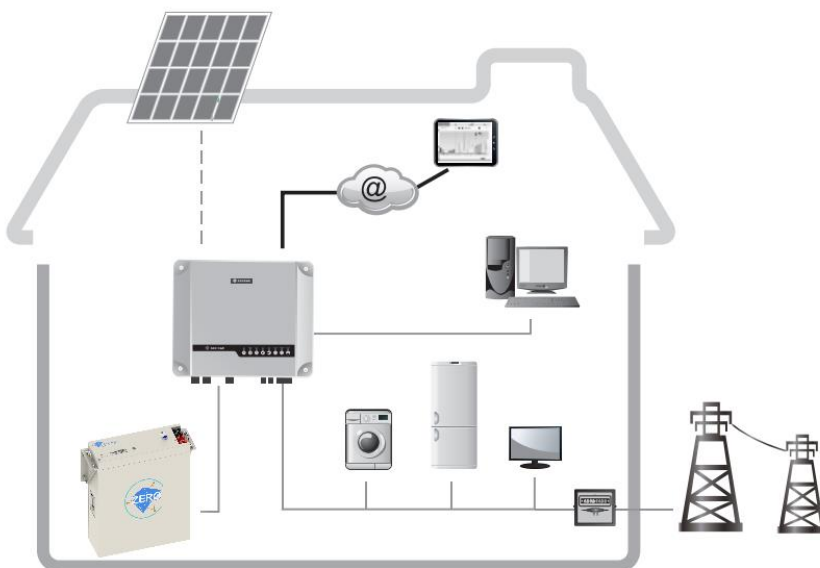
## Features

- **Safety**  
Automotive grade LFP battery and smart reliable BMS
- **Zero carbon**  
Adopt recycled battery from EV cars  
(New battery also can be used for more capacity and design lifetime)
- **Optional wall-mounted installation**  
Child and pet friendly with no installation floor area.
- **Extensible capacity**  
Max extensible capacity can reach 40KWh.
- **No noise**  
No noise source inside product.



## Application

The product can store surplus energy generated from rooftop photovoltaic panels for use when needed. When the sun has set, energy demand is high, or there is a black-out, you can use the energy stored in the product to meet the energy needs at no extra cost. In addition, the product helps you pursue the global of energy self-consumption and ultimately energy-independence.



### Electricity Bill Saving

Charge during off-peak times  
Discharge during peak times

### Self-consumption

Store solar energy generated from photovoltaic panels for further use

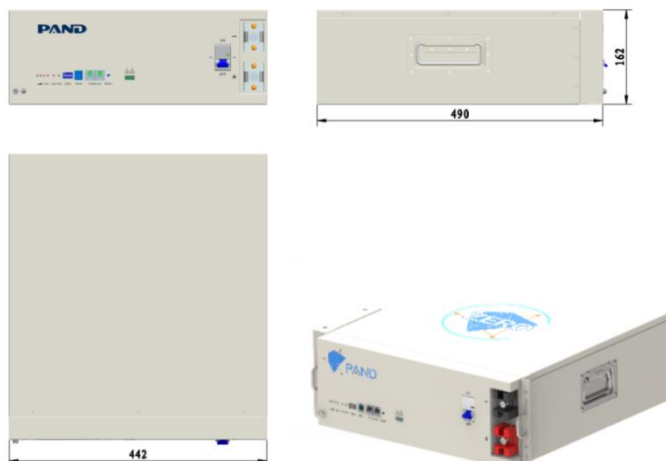
### Emergency Power Backup

Discharge during a black-out,  
functioning as backup power.

## Specification

Energy(KWh)	5
Capacity(Ah)	100
DOD	90%
Max extensible energy(KWh)	40 (Max 8 units in parallel)
Rated Voltage(V)	51.2V
Voltage range(V)	40-58.4
Charging temperature Range	0°C~+50°C
Discharge temperature Range	-20°C~+55°C
Rated power (KW)	2.5
Max charge current (A)	50
Max discharge current (A)	50
Efficiency	≥94%
Self-discharge rate	≤2%/Month
Dimension (W×H×D, mm)	442*162*490
Weight(Kg)	52±2.0
Enclosure Protection Rating	IP20
Installation method	wall-mounted, rack-mounted, floor-mounted
Storage requirement	SOC ≥30% 1) ≤12 Month @25°C 2) ≤6 Month @35°C 3) ≤3 Month @45°C
Communication	RS485/CAN
Compatible Inverter	Goodwe/Growatt/Voltronic/Megarevo/SRNE/Solis/Deye
Design Life	10years/4000 cycles
Certification	IEC60730/UN38.3

## Overview



# Powerfree Blade



Sign	Function description
SOC	Display capacity level
ALM	Display alarm status
RUN	Display running status
ADDR	DIP switch
RS232	RJ11
RS485/CAN	RJ45-1
RS485/CAN	RJ45-2
RESET	BMS switch
1/2	Dry contact
ON/OFF	MCB
P+	Battery positive terminal
P-	Battery negative terminal

## Compatible inverter list

Goodwe	S-BP series	GW3600S-BP
	EM Series	GW5048-EM
	ES Series	GW5048D-ES
Growatt	SPF series	SPF 5000 ES
	SPH series	SPH 5000 ES
Voltronic	InfiniSolar series	InfiniSolar series
	Axpert series	Axpert series
Megarevo	RKL1 Series	R5KL1-A
SRNE	/	HFP4850S80-145
Solis	RAI	RAI-3K-48ES-5G
	RHI	RHI-(3-6)K-48ES-5G
Deye	SUN/SG01 series	SUN-5-8K-SG01LP1-USEU