

Powerfree Rack

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

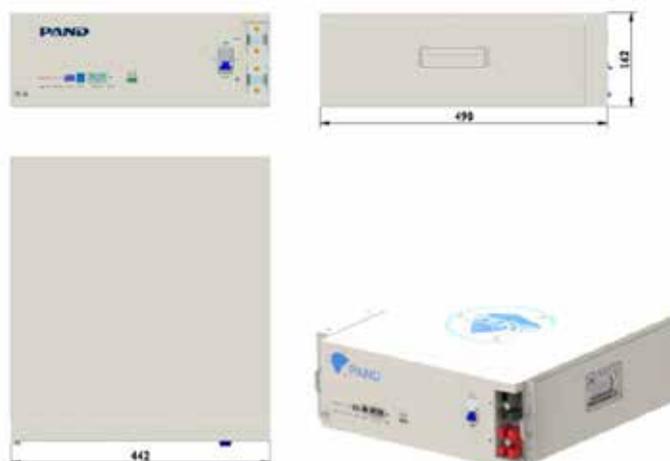
Emergency Power Backup

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





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