



**High Voltage UPS**  
**LFP Battery System**  
**Sun Pulse Series**

Shandong Sacred Sun Power Sources Co.,Ltd.

[www.sacredsun.com](http://www.sacredsun.com)

# SHUIFP512100D

## High Voltage UPS

## Lithium-ion Battery System

■ Data Center



- UPS • IDC data center
- Financial institutions
- Rail system
- Bank-up power in no electric area
- Distributed data centers in buildings



Smaller footprint,  
lighter weight,  
and higher power density

VS

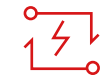


Lead Acid Battery

Reduce above 50% ↘

Reduce above 70% ↘

Increase by more than 70% ↗



Intelligent detachment from clusters,  
online maintenance.

Self management of working condition judgment  
and conversion without manual intervention.



Dual power supply mode

No need for float charging, does not consume  
its own electrical energy under AC conditions.



Multiple security guarantees

Five level safety management technology  
with built-in fire protection system.



Low TCO, OPEX

Based on customized system,  
provide the best competitive budget.

## Overview

The system adopts lithium iron phosphate cells, which can be applied to UPS, communication and energy storage systems and other large-scale power backup storage fields. With medium and high multiplier cells, it is the perfect solution for emergency power backup of 15 minutes and above, and can also provide customized solutions according to user needs.



## System Parameters

### SHUIFP512100D( 512V100Ah )

Rated voltage(V)	512	Discharge cut-off voltage(V)	432
Rated capacity(Ah)	100	Max charge voltage(V)	584.0
Voltage range(V)	432.0~584.0	Advise back-up time	≥15min
Cell	3.2V50Ah	Cycles(25℃,0.5C/1C,100%DOD)	>2500
PACK	16S 2P	Battery pack,PDU configuration	1Master+10Slave
Parellel & series	160S 2P	Pack dimention(W*D*H,mm)	440*820*133
Max discharge current(A)	550	Cabinet dimention(W*D*H,mm)	600*1000*2000
Rated energy (kWh)	51.2	System clusters(clusters)	1
Nominal power(kW)	51.2	Cabinet Count(units)	1
Output power(@2.7V/Cell,5.5C)(kW)	220	System Size(W*D*H,mm)	600*1000*2000
Max charge current(A)	50	System weight(kg)	Approx 797.0

#### Work Conditions & Communication

Working temp.(Discharge)	-20℃~50℃, recommended 5℃~40℃
Working temp.(Charge)	0℃~45℃, recommended 15℃~30℃
Working humidity	<95%R.H (non-condensing)
Altitude	Over 2500m
Communication Interface	CAN2.0/RS485/Dry contact/Modbus IP
Firefighting Req.	Perfluorohexanone or S-type aerosol(optional)
Protection Level	IP20

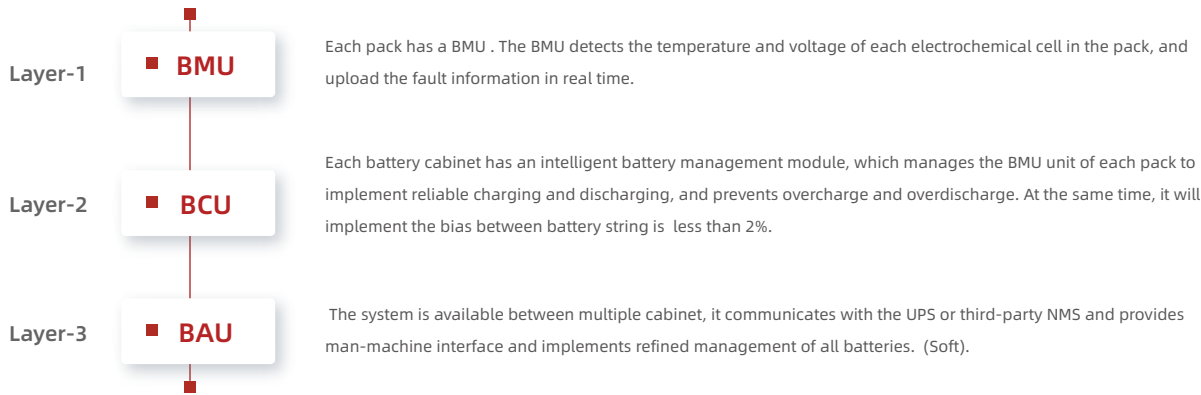
#### Certification



UN38.3RoHS

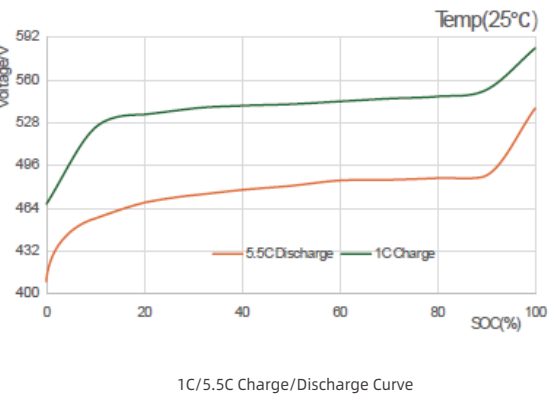
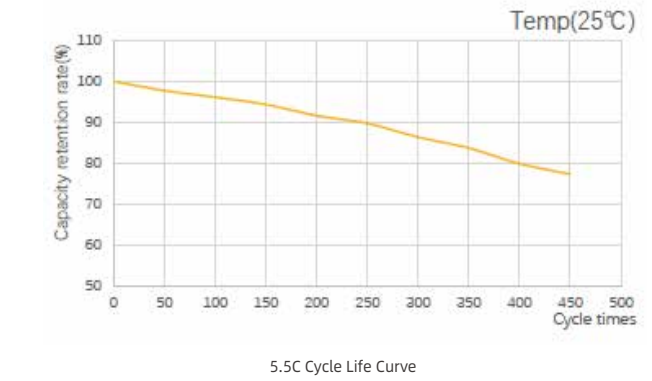
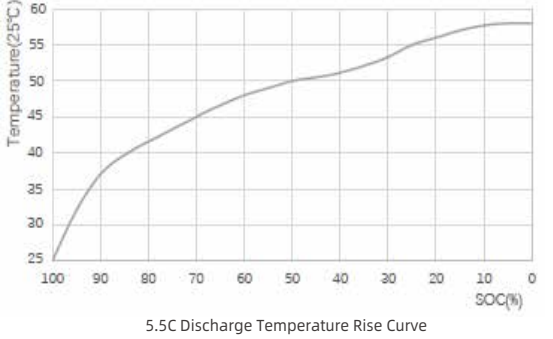
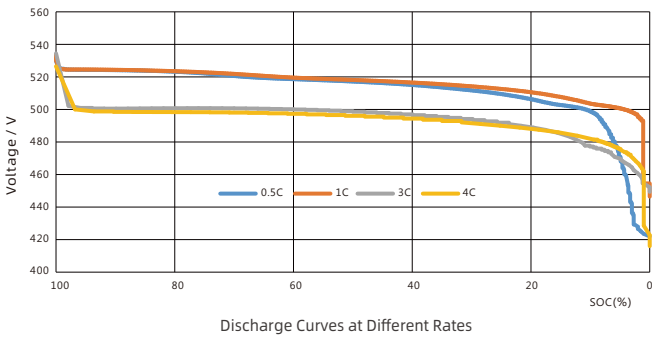
## BMS Function

Three-layer BMS system ensures the reliability of lithium batteries layer by layer.



Performance Data						
	Backup Time(min)	10	15	30	45	60
Value	Constant Power(kw)	228.16	186.08	98.4	65.7	50.25
	Constant Current(A)	490	400	200	133.3	100

## System Performance Curve



*Reliable whenever needed*



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