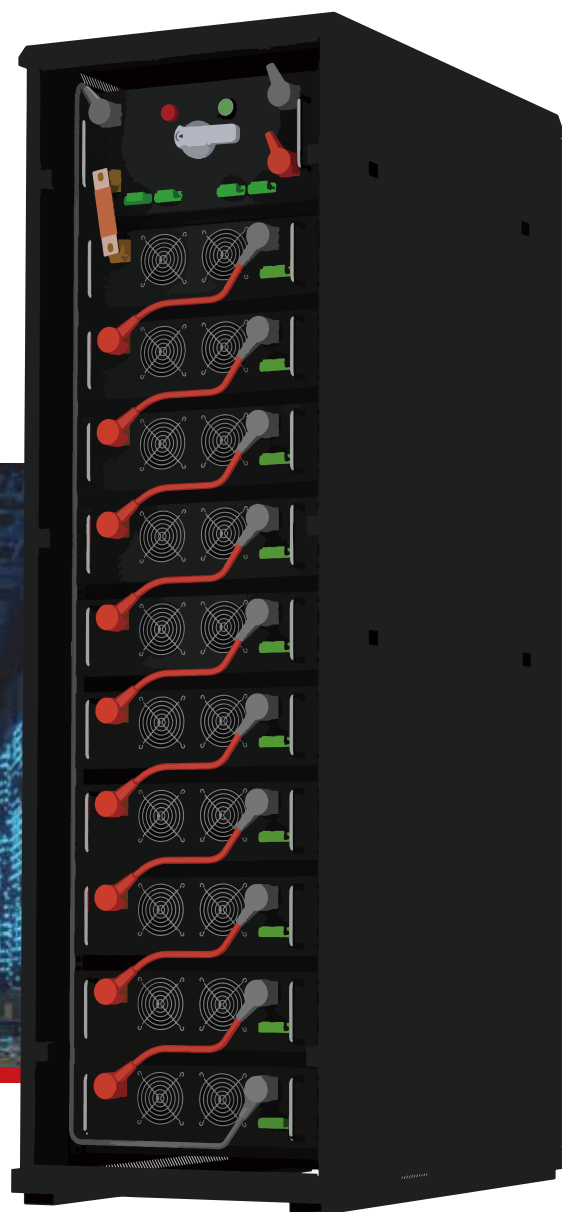




High Voltage UPS  
LFP Battery System

# Sun Pulse Series



Shandong Sacred Sun Power Sources Co.,Ltd.

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

■ 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 10 minutes and above, and can also provide customized solutions according to user needs.



System Parameters

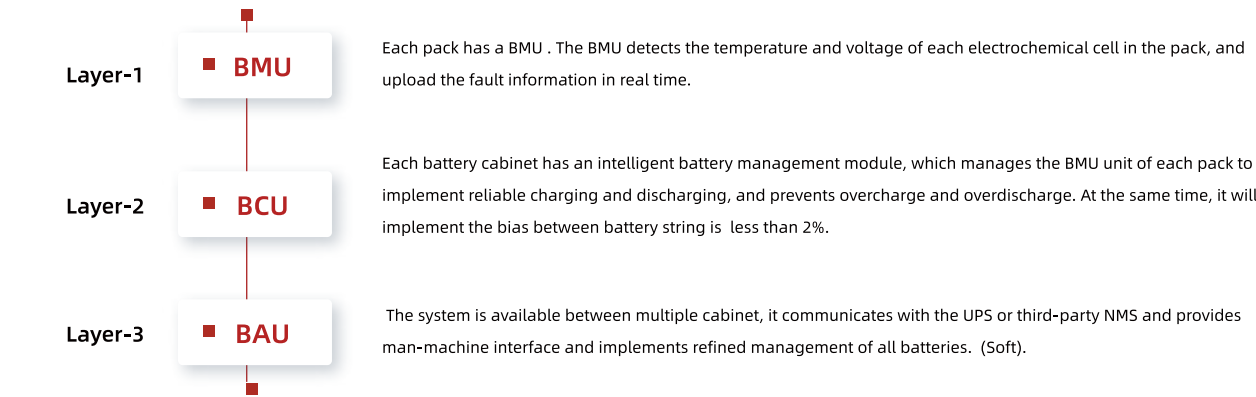
Battery System Voltage (V)	Battery System Capacity (Ah)	Battery Module	Battery Cell	Backup Time	Single Module Power (kw)	System Energy (kWh)	Size (W*H*D mm)	Module Weight (kg)
192~614.4	50	48/51.2V50Ah	50Ah	15min	9.6/10.24	9.6~30.7	440*133*470	29.5
192~614.4	100	48/51.2V100Ah	50Ah	15min	19.2/20.48	19.2~61.4	440*133*820	54
480~614.4	85	96/102.4V85Ah	85Ah	10min	48.96/52.22	40.8~52.2	440*240*800	93.5

	SHUIFP51250D ( 512V50Ah )	SHUIFP52185F ( 512V85Ah )	SHUIFP512100D ( 512V100Ah )
Rated voltage(V)	512	512	512
Rated capacity(Ah)	50	85	100
Voltage range(V)	400.0~576.0	400.0~576.0	400.0~576.0
Cell	3.2V50Ah	3.2V85Ah	3.2V50Ah
PACK	16S 1P	32S 1P	16S 2P
Parellel & series	160S 1P	160S 1P	160S 2P
Max discharge current(A)	200	510	400
Rated energy (kWh)	25.6	43.52	51.2
Nominal power(kW)	25.6	43.52	51.2
Max output power(kW)	80	204	160
Max charge current(A)	25	42.5	50
Discharge cut-off voltage(V)	400	400	400
Max charge voltage(V)	584.0	584.0	584.0
Advise back-up time	≥15min	≥10min	≥15min
Cycles(25℃, 100%DOD)	>1000 (0.5C/4C )	>800 (0.5C/6C )	>1000 (0.5C/4C )
Battery pack,PDU configuration	1Master+10Slave	1Master+5Slave	1Master+10Slave
Pack dimention(W*D*H,mm)	440*470*133	440*800*240	440*820*133
Cabinet dimention(W*D*H,mm)	600*800*2000	600*1000*2000	600*1000*2000
System clusters(clusters)	1	1	1
Cabinet Count(units)	1	1	1
System Size(W*D*H,mm)	600*800*2000	600*1000*2000	600*1000*2000
System weight(kg)	463.0	672.0	797.0

System struction & Security Control



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



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
Firefighting Req.	Perfluorohexanone or S-type aerosol(optional)
Protection Level	IP20

Products specifications described herein are subject to change without prior notification.

Certification



UN38.3 RoHS

*Reliable whenever needed*



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**Disclaimers:** This spec is as comprehensive and detailed as possible based on existing materials,  
but Sacred Sun reserves the final right to provide data, parameters, and other information.

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