



Kaskadierbar bis 10 Systeme

# Lynus Gewerbespeicher Lösung

Die Lynus Gewerbespeicher Lösung ist eine flexible und modulare Lösung zur effizienten Speicherung von Energie im Bereich Gewerbe und Industrie.

Dieser Gewerbespeicher ist die ideale Lösung für Arbitragehandel, Regelenergie, Flexvermarktung und Dynamischen Stromtarif.

Von 100 kW - 1.000 kW

Von 193 kWh - 1.930 kWh Netto



**Lynus**



**Swiss  
Made**

## Beschreibung

- Inverterleistung von 100 kW
- Kaskadierbar bis 10 Systeme
- Netto Batteriekapazität von 193 kWh
- Lynus Energiemanagement
- Spitzenlastkappung
- Lithium Eisen Phosphat Zellchemie
- 10 Jahre Garantie
- Indoor Cabinet IP 20
- 10.000 Ladezyklen
- mit Option auf Notstrom/Generatormodul, MPPT Modul und Connect Box

## Funktionen

● Lynus System - **Mit Connect Box**

● Lynus System - **Mit Wifi Stick**

✓	✓	Monitoring
✓	✓	Eigenverbrauchsoptimierung
✓	✗	Spitzenlastkappung
✓	✗	Mieterstrommodell
✓	✗	Direktvermarktung
✗	✗	AC-Unterverteilung
✗	✗	Bypass-Schalter integriert
✓	✗	Schnittstelle zu Heizeinsatz
✓	✗	Schnittstelle zu Ladestationen
✓	✗	Schnittstelle zu Wärmepumpe
✓	✗	Schnittstelle zu BHKW
✓	✗	Schnittstelle zu Generator
✓	✗	Schnittstelle zu schaltbare Verbraucher
✓	✗	Arbitragehandel
✓	✗	Regelenergie
✓	✗	Dynamischen Stromtarif

# Batteriedaten

Model	BOS-B	
<b>Main Parameter</b>		
Battery Module Energy ( kWh )		14.3
Battery Module Nominal Voltage ( V )		51.2
Battery Module Capacity ( Ah )		280
Module Weight Approximate ( kg )		122
Battery Module Qty In Series ( Optional )		15
Scalability		5 ~ 15
System Nominal Voltage ( V )		768
System Energy ( kWh )		214.5
System Usable Energy ( kWh )		193.05
Charge/Discharge Current ( A )	Recommend	140
	Max	168
<b>Other Parameter</b>		
Operating Temperature ( °C )	discharge : 5 ~ 55	charge 5 ~ 55
Storage Temperature ( °C )	5 ~ 35	
Thermal Management	Smart fan cooling	
LCD Display	SOC / Fault Code	
Status Indicator	Yellow : Battery High Voltage Power On Red : Battery System Alarm	
Communication Port	TCP / RS485 / CAN	
Communication With BMS	CAN	
Humidity	5% ~ 85%	
Altitude	≤3000m	
IP Rating of Enclosure	IP20	
Noise ( dB )	TBD	
System Dimension ( W × H × D, mm )	2150 × 1136 × 800	
System Weight Approximate ( kg )	1850	
Installation Location	Rack Mounted	
Recommend Depth of Discharge	90%	
Cycle Life	25±2°C, 0.5C / 0.5C, EOL70%≥6000	
Warranty Period	10 years	
Certification	CE / IEC62619 / IEC62040 / UN38.3	

## Inverterdaten

PCS Model	SUN-100K-PCSL01HP3
<b>Battery Data</b>	
Battery Type	Lithium-ion
Battery Voltage Range (V)	630-1000
Max. Charging Current (A)	175
Max. Discharging Current (A)	175
Charging Strategy for Li-ion Battery	Self-adaption to BMS
Number of Battery Input	1
<b>AC Input/Output Data</b>	
Rated AC Input/Output Active Power (kW)	100
Max. AC Input/Output Apparent Power (kVA)	110
Rated AC Input/Output Current (A)	166.7/159.5
Max. AC Input/Output Current (A)	151.6/145
Rated Input/Output Voltage/Range(V)	220/380V, 230/400V 0.85Un-1.1Un
Grid Connection Form	3L+N+PE
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz
Power Factor Adjustment Range	0.8 leading-0.8lagging
Total Current Harmonic Distortion THDi	<3% (of nominal power)
DC Injection Current	<0.5% In
<b>Efficiency</b>	
Max. Efficiency	98.5%
Euro Efficiency	98.0%
MPPT Efficiency	>99%

## MPPT Daten

MPPT Module	SUN-MPPT-L01-EU-AM8
<b>PV String Input Data</b>	
Max. PV Input Power (kW)	200
Max. PV Input Voltage (V)	1000
Start-up Voltage (V)	200
MPPT Voltage Range (V)	180-850
Full Load MPPT Voltage Range (V)	450-850
Rated PV Input Voltage (V)	600
Max. Operating PV Input Current (A)	40+40+40+40+40+40+40
Max. Input Short-Circuit Current (A)	60+60+60+60+60+60+60+60
No. of MPP Trackers	8
<b>Efficiency</b>	
Max. Efficiency	>99%
MPPT Efficiency	>99.9%

# Notstrom/Generator Daten

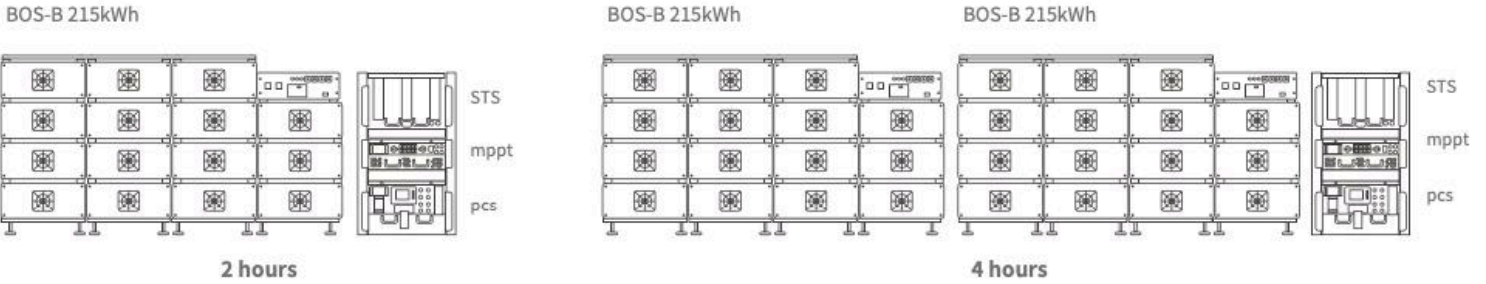
STS Module	SUN-STS500L
<b>Grid Side Data</b>	
Rated AC Input/Output Active Power (kW)	500
Rated AC Input/Output Current (A)	725
Rated Input/Output Voltage(V)	220/380, 230/400 (three phase)
Grid Connection Form	3L/N/PE
Rated Input/Output Grid Frequency	50Hz/60Hz
<b>Load Side Data</b>	
Rated Output Active Power (kW)	500
Rated Output Current (A)	725
Rated Output Voltage(V)	220/380, 230/400 (three phase)
Grid Connection Form	3L/N/PE
Rated Output Grid Frequency	50Hz/60Hz
<b>GEN Side Data</b>	
Rated AC Input Active Power (kW)	500
Rated AC Input Current (A)	725
Rated Input Voltage(V)	220/380, 230/400 (three phase)
Grid Connection Form	3L/N/PE
Rated Input Grid Frequency	50Hz/60Hz
<b>Equipment Protection</b>	
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level
Surge Protection Level	TYPE II(DC), TYPE II(AC)

# Allgemein

<b>Interface</b>			
LCD/LED display	LCD		
Communication Interface	WIFI, RS485, CAN, Meter		
<b>General Data</b>			
Off grid switching time	<10ms		
Operating Temperature Range(°C)	5°Cto +60°C,>45°C Derating		
Ideal Temperature Range	15°C - 25°C		
Permissible Ambient Humidity	0-95%		
Permissible Altitude	4000m		
Ingress Protection(IP) Rating	IP 65(MPPT Module)	IP 65(PCS Module)	IP 20(STS Module)
Cabinet Size(W×H×D)[mm]	543×660×198(MPPT Module)	543×775×310(PCS Module)	543×796×575(STS Module)
Inverter Topology	Non-Isolated		
Over Voltage Category	OVC II(DC), OVC III(AC)		
Type of Cooling	Intelligent Air Cooling		
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy		
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105		
Safety/EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		

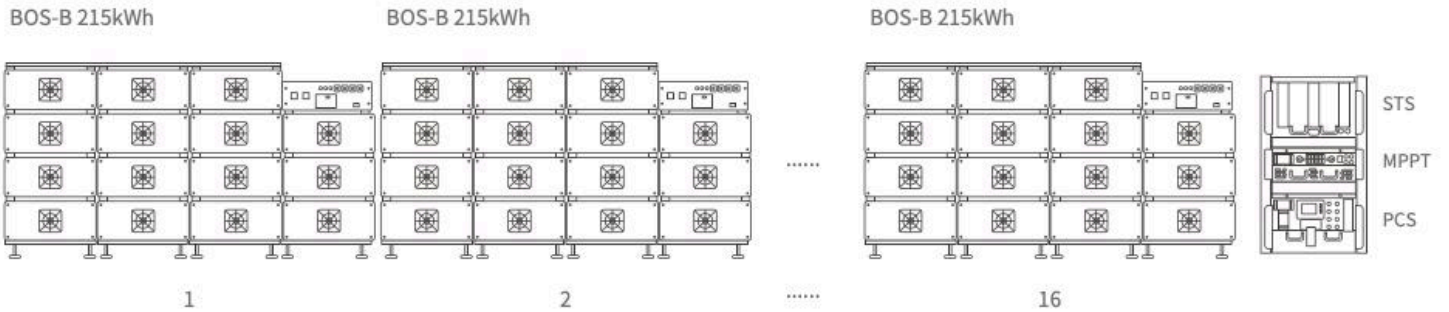
### Backup Power Duration Plan

	2 hours	4 hours
Hybrid inverter power	100kW	100kW
Battery model	BOS-B 215kWh	BOS-B 215kWh × 2

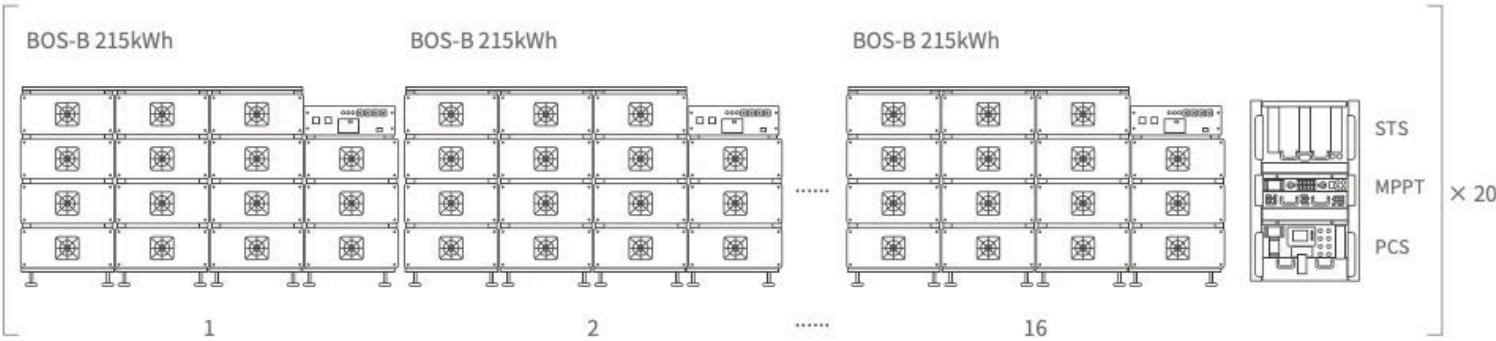


### Typical Application Scenarios

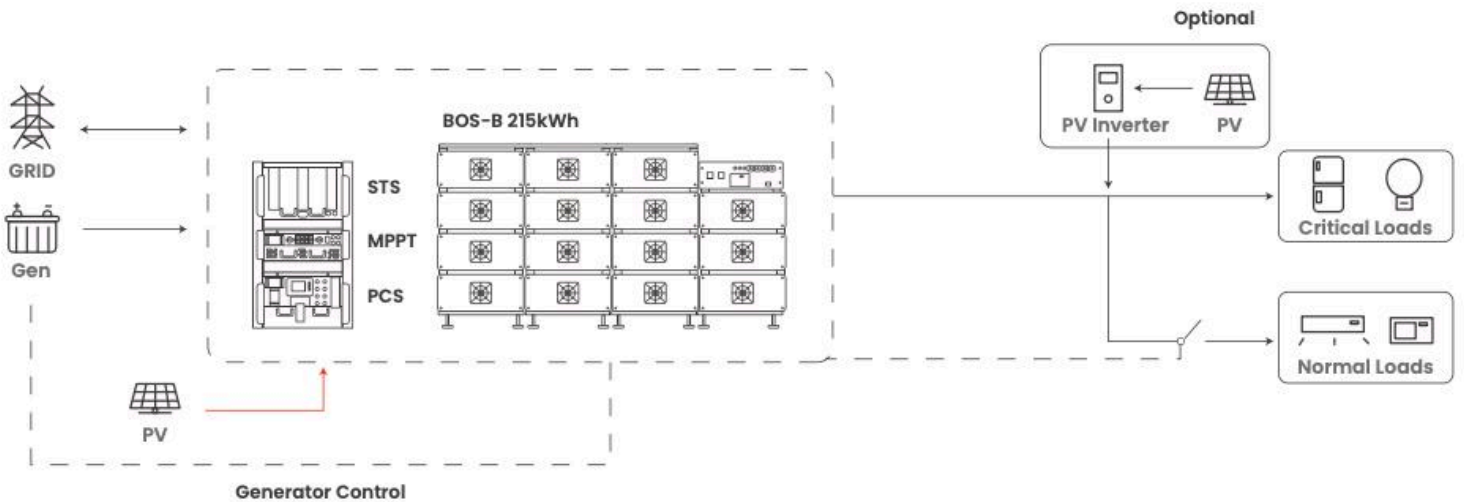
#### Maximum support for 16 racks of batteries in parallel



#### Maximum support for 20 inverters in AC parallel operation



AC → DC → Signal





## Wir sind in Ihrer Nähe!

Wir stehen Ihnen gerne zur Verfügung und beantworten alle weiteren Fragen. Kontaktieren Sie uns einfach telefonisch oder per E-Mail, wenn wir Ihr Interesse geweckt haben oder Sie weitere Informationen wünschen.

### Lynus Schweiz

@ info@lynus.io

📞 +41 41 510 87 85

📍 Linthstrasse 53  
8856 Tuggen

### Lynus Deutschland

@ office@lynus.io

📞 +49 263 298 940 587

📍 Am Weissen Haus 9  
56626 Andernach