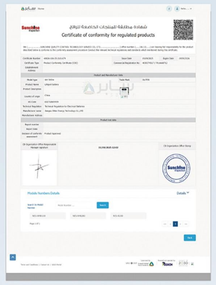
X-SOLAR™

ANSEAT-SOLAR × X-SOLAR

ANSEAT Lasertechnik GmbH · Anseat Solar-Photovoltaik-Solarthermie
Dr. Horst Ranke · Metzingerstr. 14 · 72766 Reutlingen · Germany
0049-172-7310900 (mobile & WhatsApp) · info@anseat.de
www.anseat-lasertechnik.de

Certificates



MSDS

UN38.3

Air-cooled Energy Storage Cabinet

PV Efficiency
200% PV input capacity to maximize solar energy utilization

Robust Protection
IP55 rating for harsh outdoor environments

Remote Upgrade
Multi-Protocol Communication, Cloud Updates Within Minutes

Modular Design
Flexible expansion and simplified maintenance

High Energy Density
Compact Size, Lightweight, And Easy To Install & Transport

All-in-One Delivery
Cost-Saving & Easy to Install

Technical Data »

Model	X-A 30kW/100kWh	X-A 30kW/112kWh	X-A 50kW/112kWh
Battery Parameters			
Usable Energy(kWh)	100	112	112
Cell Type	LFP($LiFePO_4$)		
Battery Module Capacity(kWh)	14.336	16.076	16.076
Number of Battery Modules	7		
Rated Voltage(V)	358.4		
Maximum Charge/Discharge Current(A)	140	157	
PV Input Parameters			
Maximum Input Power(kW)	60	100	
Maximum Input Voltage (V)	1000		
MPPT Voltage Range (V)	150~850		
Startup Voltage(V)	180		
Rated Input Voltage (V)	600		
Maximum Input Current per MPPT(A)	40		
Maximum Short-circuit Current per MPPT(A)	60		
Number of MPPTS	3	4	
Output Power			
Rated Output Power(kW)	30	50	
Rated Output Power (V)	3/N/PE, 220V/380V, 230V/400V		
Rated Output Power Frequency(Hz)	50/60		
Efficiency			
Maximum PCS Efficiency	97.80%		
System Efficiency	95.00%		
Basic Parameters			
Operating Temperature Range(°C)	-20~+55		
Relative Humidity	0-95%		
Maximum Operating Altitude(m)	3000		
Cooling Method	Intelligent Air Cooling		
Human-machine Interface	LED, Bluetooth+App		
Communication	CAN, RS485, Ethernet, WiFi, Cellular, Lan		
Weight(kg)	<2500	<2500	<3000
Dimensions (W*D*H mm)	804*1184*2179		
Topology	Non-isolated		
Protection Level	IP55		
Certificate	IEC, UN38.3, MSDS		
Firefighting System	Aerosol		
Installation Method	Floor-mounted		

Air-cooled Energy Storage Cabinet

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200% PV input capacity to maximize solar energy utilization

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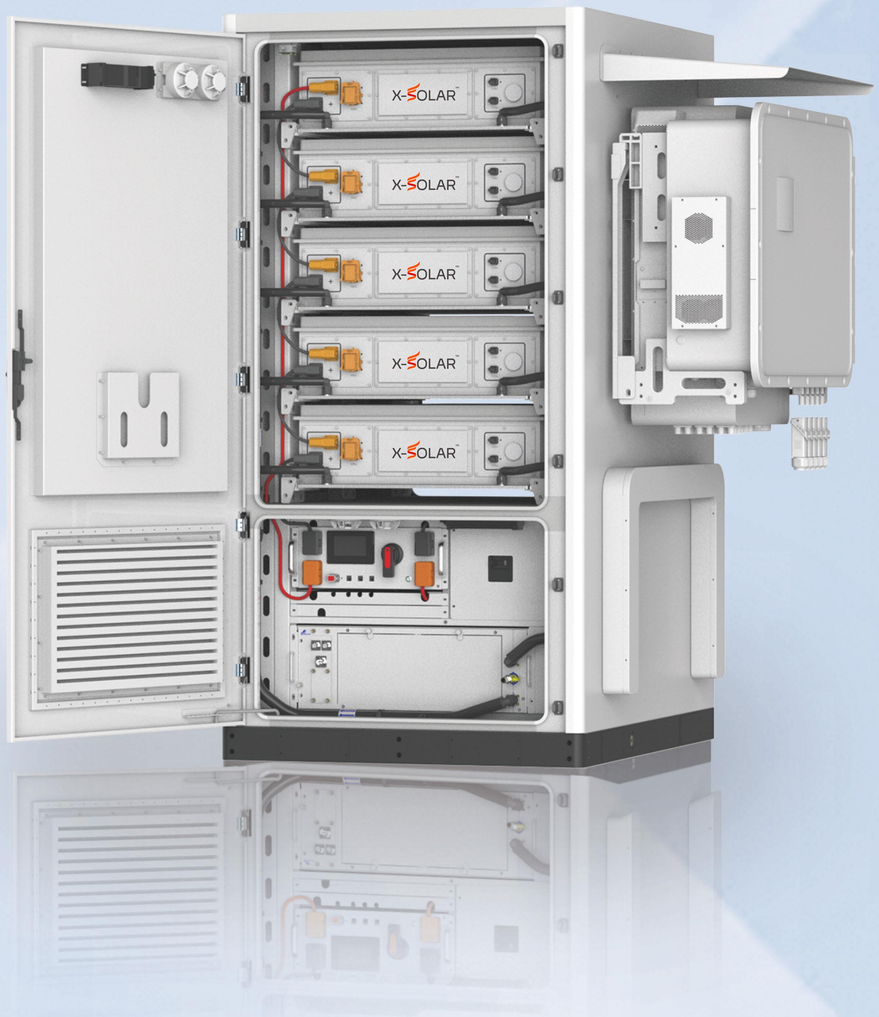
Technical Data »

Model	X-A 50kW/200kWh	X-A 50kW/225kWh	X-A 125kW/241kWh
Battery Parameters			
Usable Energy(kWh)	200	225	241
Cell Type	LFP($LiFePO_4$)		
Battery Module Capacity(kWh)	14.336	16.076	16.076
Number of Battery Modules	14		15
Rated Voltage(V)	716.8		768
Maximum Charge/Discharge Current(A)	140	157	157
PV Input Parameters			
Maximum input Power(kW)	100		240
Maximum Input Voltage (V)	1000		1000
MPPT Voltage Range (V)	150-850		150-950
Startup Voltage(V)	180		
Rated Input Voltage (V)	600		
Maximum Input Current per MPPT(A)	40		42
Maximum Short-circuit Current per MPPT(A)	60		
Number of MPPTS	4		10
Output Parameters			
Rated Output Power(kW)	50		125
Rated Output Voltage (V)	3/N/PE, 220V/380V, 230V/400V		
Rated Output Voltage Frequency(Hz)	50/60		
Efficiency			
Maximum PCS Efficiency	97.80%		
System Efficiency	95.00%		
Basic Parameters			
Operating Temperature Range(°C)	-20~+55		
Relative Humidity	0-95%		
Maximum Operating Altitude(m)	3000		
Cooling Method	Intelligent Air Cooling		
Human-machine Interface	LED, Bluetooth+App		
Communication	CAN, RS485, Ethernet, WiFi, Cellular, Lan		
Weight(kg)	<2500	<2500	<3000
Dimensions (W*D*H mm)	1176*1184*2392		
Topology	Non-Isolated		
Protection Level	IP55		
Certificate	IEC,UN38.3,MSDS		
Firefighting System	Aerosol		
Installation Method	Floor-mounted		

Liquid-cooled Energy Storage Cabinet



Intelligent Cooling
Battery Temperature ≤38°C At Full Load, Deviation <3°C

Cluster Management
Supports parallel operation for MW-scale projects

Reliable Operation
Cluster Management, Cloud-edge Collaboration, Real-Time Monitoring & Fault Alerts

Safety First
LFP Batteries with intergrated aerosol fire suppression system

All-in-One Delivery
Cost-Saving & Easy to Install

Ultimate Protection
5cm Rock Wool Insulation, 1-Hour Flame Resistance, And C4-Grade Enclosure

Technical Data »

Model	X-A 125kW/233kWh	X-A 125kW/261KWh
Battery Parameters		
Usable Energy(kWh)	233	261
Cell Type	LFP($LiFePO_4$)	
Battery Module Capacity(kWh)	46.592	52.249
Number of Battery Modules	5	
Rated Voltage(V)	832	
Maximum Charge/Discharge Current(A)	140	157
PV Input Parameters		
Maximum Input Power (kW)	240	
Maximum Input Voltage (V)	1000	
MPPT Voltage Range (V)	150~950	
Voltage(V)	180	
Rated Input Voltage (V)	600	
Maximum Input Current Per MPPT(A)	42	
Maximum Short-circuit Current Per MPPT(A)	60	
Number of MPPTS	10	
Output Parameters		
Rated Output Power(kW)	125	
Rated Output Voltage (V)	3/N/PE, 220V/380V, 230V/400V	
Rated Output Voltage Frequency(Hz)	50/60	
Efficiency		
Maximum PCS Efficiency	97.60%	
System Efficiency	95.00%	
Basic Parameters		
Operating Temperature Range(°C)	-20~+55	
Relative Humidity	0-95%	
Maximum Operating Altitude(m)	3000	
Cooling Method	Liquid cooling	
Human-machine Interface	LED, Bluetooth+App	
Communication	CAN, RS485, Ethernet, WiFi, Cellular, Lan	
Weight(kg)	<3000	
Dimensions (W*D*H mm)	1100*1400*2105	
Topology	Non-Isolated	
Protection Level	IP55	
Certificate	IEC, UN38.3, MSDS	
Firefighting System	Aerosol	
Installation Method	Floor-mounted	

MW-scale Energy Storage Power Station

Flexible Operation
Multiple working modes for diverse applications

Triple Parallel Connection
Grid + Battery + Load Simultaneous Integration

Real-Time Monitoring
Full online visibility of system performance

Integrated & Portable
High-Level Integration, Quick Installation, And Easy Transportation

Smart BMS & Thermal Management
Active Balancing + Thermal Protection For >6000 Cycles Lifespan

All-in-One Delivery
Cost-Saving & Easy to Install

Technical Data »

Model	BESS 500kW/1.2MWh	BESS 1000kW/2.4MWh
Battery Parameters		
Usable Energy(kWh)	1205	2410
Cell Type	LFP($LiFePO_4$)	
Battery Module Capacity(kWh)	16.076	
Number of Battery Modules	75	150
Rated Voltage(V)	768	
PV Input Parameters		
Maximum Input Power (kW)	600/660/720	1200/1320/1440
Maximum Input Voltage (V)	1000	
MPPT Voltage Range (V)	250~850	
Output Parameters		
Rated Output Power(kW)	500	1000
Rated Output Voltage (V)	400（-15%~15%）	
Rated Output Voltage Frequency(Hz)	50/60	
Efficiency		
Maximum PCS Efficiency	97.60%	
System Efficiency	95.00%	
Basic Parameters		
Operating Temperature Range(°C)	-20~+55	
Relative Humidity	0-95%	
Maximum Operating Altitude(m)	3000	
Cooling Method	Air cooling	
Human-machine Interface	LED, Bluetooth+App	
Communication	CAN, RS485, Ethernet, WiFi, Cellular, Lan	
Weight(kg)	21000	38000
Dimensions (W*D*H mm)	6058*2438*2591	
Topology	Non-Isolated	
Protection Level	IP55	
Certificate	IEC, UN38.3, MSDS	
Firefighting System	Aerosol	
Installation Method	Floor-mounted	