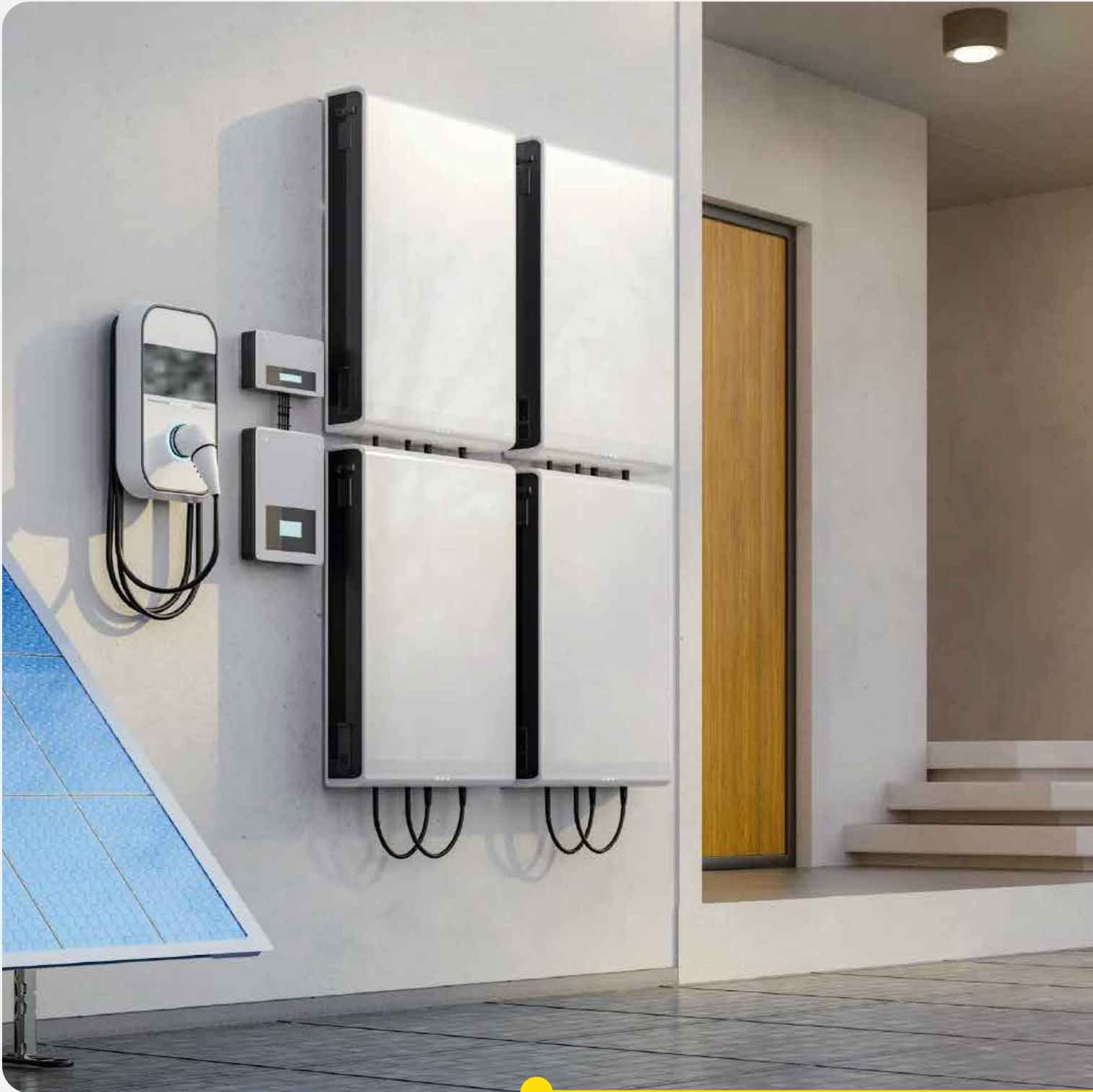


ZINERIC



ENERGY STORAGES

About the company

Zineric is a leading manufacturer of energy storage and electrical components dedicated to renewable energy sources. From PV switchboards to intelligent storage systems - our offer responds to the real needs of modern installations, both domestic, commercial and industrial.

Behind the brand's success stands an experienced team of engineers who support customers at every stage - from design, through component selection, to after-sales care. We focus on quality, safety and reliability, which translate into the longevity of our solutions.



Why Zineric?

A comprehensive approach

We offer not only a device, but an entire energy storage system ready for integration with a PV installation and energy management systems.

Premium security

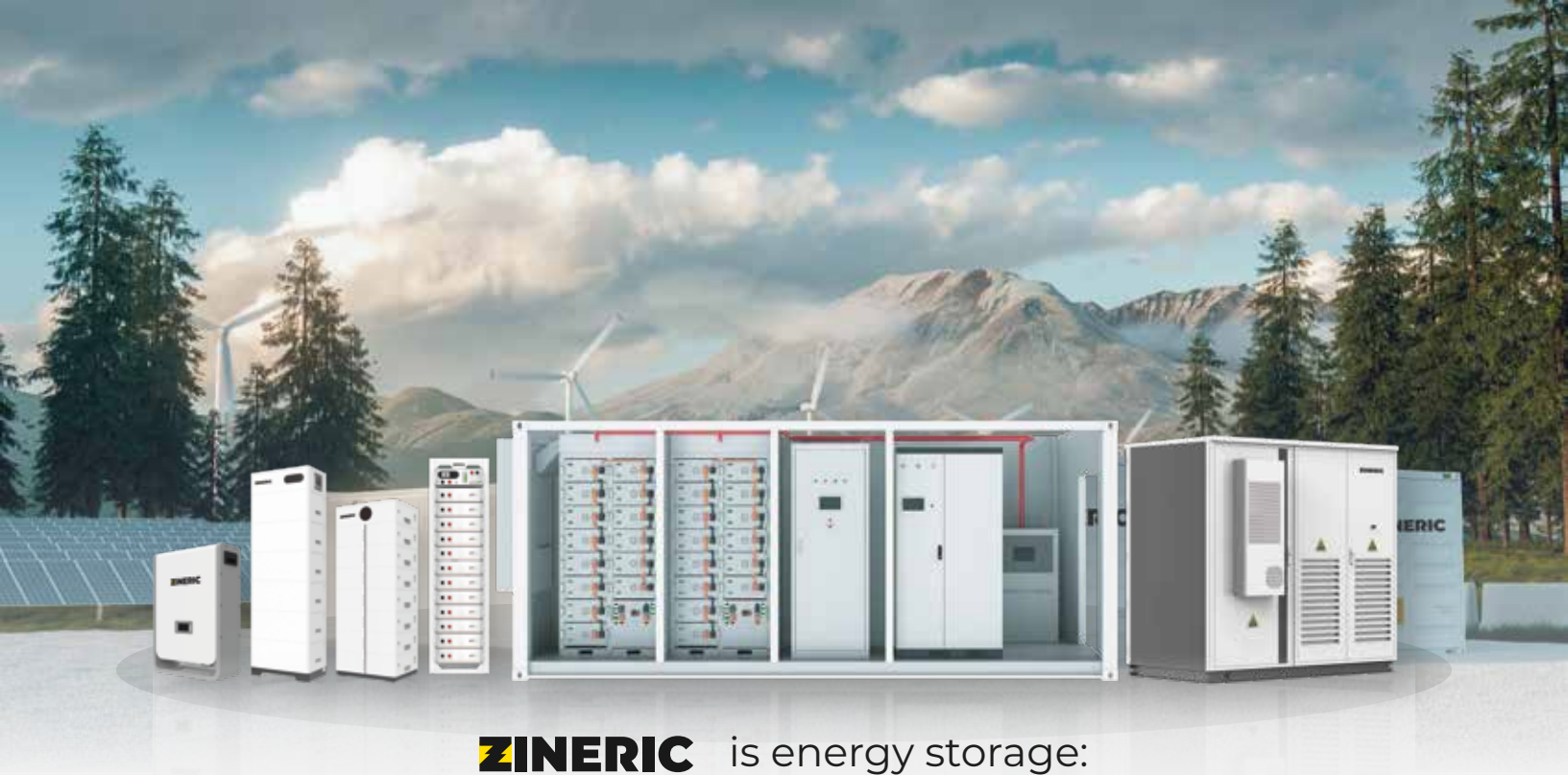
Our warehouses are based on proven LiFePO₄ technologies, which are characterized by the highest level of safety.

Flexibility of applications

Zineric systems operate successfully in various types of installations, from home installations to large industrial facilities.

Longevity and quality

Each Zineric energy storage is an investment for years weather resistance and a high number of operating cycles.



For home

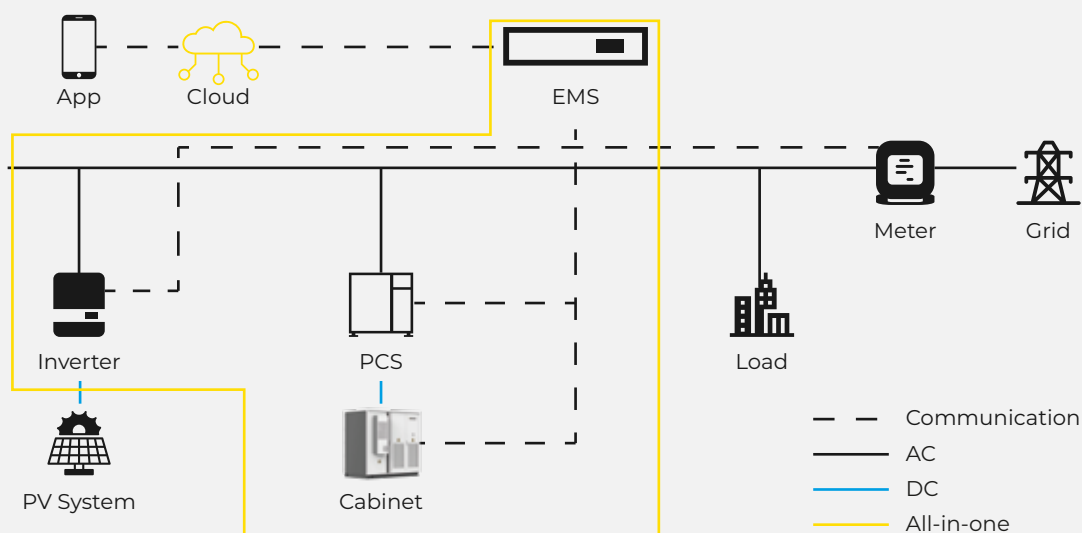
- Zineric F1 Energy Storage 5,12 kWh HV Stack Tower
- Zineric F2 Energy Storage 5,12 kWh LV Stack Tower
- Zineric O1 Energy Storage 5,12 kWh LV Rack
- Zineric O2 Energy Storage 5,12 kWh LV Wallmount Wall/Floor

For the company

- Zineric ZC-1 50/100 kWh All-in-one Air-Cooling Inverter Slot
- Zineric ZC-2 100/215 kWh All-in-one Air-Cooling MPPT

For industryt

- Zineric ZI-1 0,5/1 MWh PCS Air-Cooling Container
- Zineric ZI-2 5 MWh no-PCS Liquid-Cooling Container





Zineric F1 Energy Storage

5,12 kWh HV Stack Tower



IP65 protection level



LCD touch panel



Auto-protection against overvoltage, current, temperature



Automatic identification of modules



Long warranty: 10 years (up to 6000 cycles)



Scalable structure (up to 30.72 kWh)

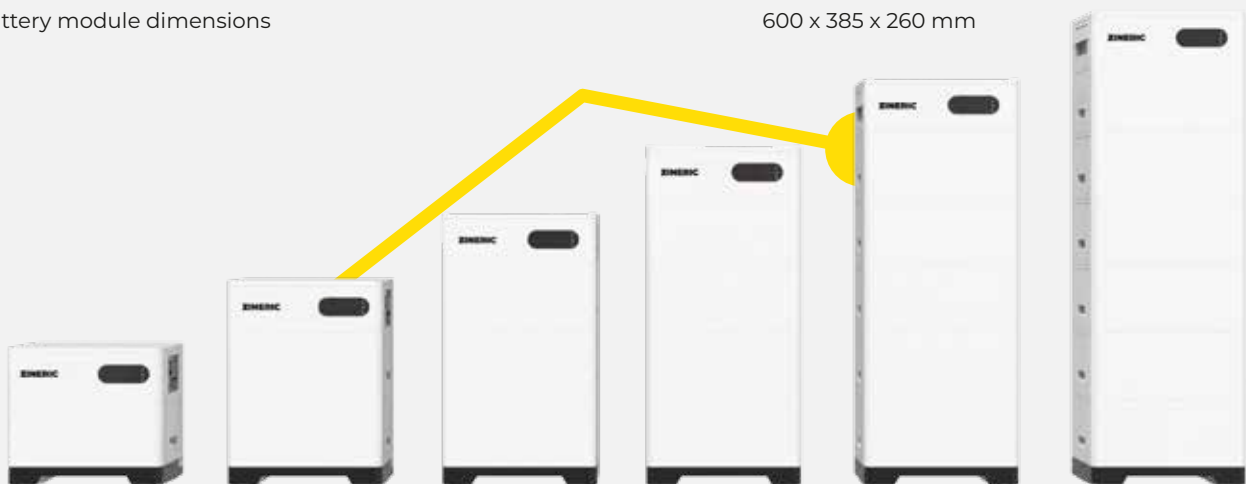


Aerosol fire extinguishing system

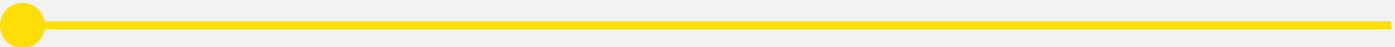


Modern design

Model Zineric F1 5,12 kWh HV Stack Tower						
Battery type	LiFeP04					
Module energy	5,2 kWh					
Module nominal voltage	102,4 V					
Module capacity	50 Ah					
Number of battery modules	1	2	3	4	5	6
System energy	5,12 kWh	10,24 kWh	15,36 kWh	20,48 kWh	25,6 kWh	30,72 kWh
Nominal system voltage	102,4 V	204,8 V	307,2 V	409,6 V	512 V	614,4 V
System operating voltage	96-115,2 V	192-230,4 V	288-345,6 V	384-460,8 V	480-576 V	576-691,2 V
Recommended charge/discharge current	25A					
Max continuous charge/discharge current	50A					
Peak charge/discharge current (15S)	60A					
Depth of discharge (DOD)	>95%					
Display type	LED+LCD (touch)					
Protection level	IP65					
Operating temperature range	Charging :0~ + 55°C / Discharging: -20°C~ + 55°C					
Storage temperature range	0°C~+35°C					
Humidity	5%~95%					
Height	<2000 m					
Life Cycle	> 6000 cycles					
Installation	Multi-storey installation / floor installation					
Security	Built-in intelligent BMS system, circuit breaker					
Communication port	RS485/CAN					
Warranty period	10 years					
Weight of the control module	24,5 kg					
Control module dimensions	600 x 385 x 200 mm					
Battery module weight	57,5 kg					
Battery module dimensions	600 x 385 x 260 mm					



Inverter manufacturer	Type	Communication	Zineric FI
	SUN-5~25K-SG01HP3-EU/AU	CAN	✓
	SUN-29.9~50K-SG01HP3-EU/AU	CAN	✓
	GW5KN-10KN-ET+	CAN	✓
	BT(5K-10K)	CAN	✓
	EH(3K-6K)	CAN	✓
	BH(3K-6K)	CAN	✓
	EHB	CAN	✓
	GW40-50K-ET-10	CAN	✓
	GW6-15K-ET-20	CAN	✓
	RHI-3P-HVES-5G series	CAN	✓
	S6-EH3P(5-10)K-H-EU	CAN	✓
	S6-EH1P(3.8-11.4)K-H-US	CAN	✓
	S6-EH3P(29.9-50)K-H	CAN	✓
	SH.5.0	CAN	90% tested
	SH.6.0	CAN	90% tested
	SH.8.0	CAN	90% tested
	SH.10.0	CAN	90% tested
	HYD 10000	CAN	90% tested
	HYD 15000	CAN	90% tested
	HYD 20000	CAN	90% tested
	HYT-HV Series	CAN	✓
	HAT-HV Series	CAN	✓



Inverter manufacturer	Type	Communication	Zineric FI
	AF3~9.6K-DH Series	CAN	✓
	AF3~30K-TH Series	CAN	✓
	AF3~12K-THP Series	CAN	✓
	AF3~17K-THA Series	CAN	✓
	AF3~6K-THC Series	CAN	✓
	AF3~15K-THM Series	CAN	✓
	AF3~30K-TH-0 Series	CAN	✓
	AF3~12K-THP-0 Series	CAN	✓
	AF3~15K-THM-0 Series	CAN	✓
	REX 10HP3G01	RS485	✓
	REX 50HP3G01	RS485	✓
	REX 40HP3G01	RS485	✓
	REX 30HP3G01	RS485	✓
	REX 25HP3G01	RS485	✓

Cable arrangement in pins for communication with inverters

NO.	Deye	Goodwe	Solis	Sungrow	Afore	Felicity
PIN 1	X	X	X	X	CAN_H	X
PIN 2	X	X	X	X	X	X
PIN 3	X	X	X	X	CAN_L	X
PIN 4	CAN_H	CAN_H	CAN_H	CAN_H	X	X
PIN 5	CAN_L	CAN_L	CAN_L	CAN_L	X	X
PIN 6	X	X	X	X	X	X
PIN 7	X	X	X	X	X	CAN_L
PIN 8	X	X	X	X	X	CAN_H

The above data is for reference only. Compatibility may change at any time. It depends on the inverter manufacturers, so some data may be out of date, depending on the time of printing the catalog.



F2

Zineric F2 Energy Storage

5,12 kWh LV Stack Tower



IP65 protection level



LCD panel



Auto-protection against
overvoltage, current, temperature



Automatic identification of
modules



Long warranty: 10 years
(up to 6000 cycles)



Scalable structure
(up to 40.96 kWh)



Aerosol fire extinguishing system



Modern design

Model							Zineric F2 5,12 kWh LV Stack Tower						
Battery type	LiFeP04												
Nominal energy	5,12 kWh												
Nominal capacity	100 Ah												
Nominal voltage	51,2 V												
Number of battery modules	1	2	3	4	5	6							
System energy	5,12 kWh	10,24 kWh	15,36 kWh	20,48 kWh	25,6 kWh	30,72 kWh							
Recommended charge/discharge current	50 A	100 A	150 A	200 A	250 A	300 A							
Max continuous charge/discharge current	60 A	120 A	180 A	240 A	300 A	360 A							
Peak charge/discharge current (15S)	100 A	200 A	300 A	400 A	500 A	600 A							
Scalability	Max 8 pieces in parallel												
System operating voltage	44.8 ~ 57.6V												
Depth of discharge (DOD)	≥ 95%												
Display type	Control module: LCD/Battery module: LED*4												
Security Level	IP21												
Operating temperature range	Charge: 0 ~ + 55°C/Discharge: -20°C ~ + 55°C												
Storage temperature range	0°C ~ + 35°C												
Humidity	5% ~ 95%												
Height	<2000 m												
Life cycle	> 6000 cycles												
Installation	Wall mount / Floor mount												
Security	Built-in intelligent BMS system, circuit breaker, fuse												
Communication port	RS485/CAN												
Warranty period	10 years												
Weight of the control module	46 kg												
Control module dimensions	600 x 450 x 180 mm												
Battery module weight	46 kg												
Battery module dimensions	600 x 450 x 180 mm												





Zineric O1 Energy Storage

5,12 kWh LV Rack



24/7 monitoring



Long service life



Home Security



Auto-protection against overvoltage, current, temperature



Displaying the charge level



High scalability (up to 20.48 kWh)

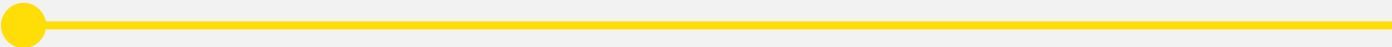


Small size



Easy installation

Model		Zineric O1 5,12 kWh LV Rack
Battery type	LifePO4 (LFP)	
Nominal voltage	51,2 V	
Nominal capacity	5,12 kWh	
Usable capacity	4,608 kWh	
Design life	+10 years (25°C/77°F)	
Dimension (mm)	480x443x133	
Weight (kg)	43,4	
Cycle life	>6000 cycles (25°C±2°C, 80% DOD)	
Discharge voltage	44,8 V	
Charge voltage	56,8 V	
Charge current	50 A (recommended); 100 A (max)	
Internal resistance	≤30mΩ	
Power consumption	<2 W (work) < 100 mW (sleep)	
Monitoring parameters	System voltage, current, cell voltage, cell temperature, module temperature	
SOC	Intelligent algorithm	
Communication	CAN/RS-485	
Operating temperature range	Charge temperature 0°C ~ 60°C: Discharge temperature -20°C ~ 60°C	
Storage temperature range	-20°C ~ 45°C	
Humidity	15% ~ 85% (no condensing)	
Product warranty	5 years	
Performance warranty	10 years	





Zineric O2 Energy Storage

5,12 kWh LV Wallmount Wall/Floor



24/7 monitoring



Long service life



Home Security



Auto-protection against overvoltage, current, temperature



Displaying the charge level



High scalability
(up to 20.48 kWh)

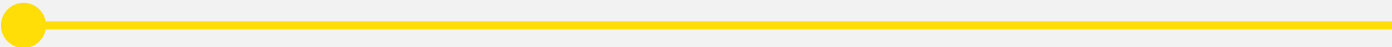


Wall or ground mounting

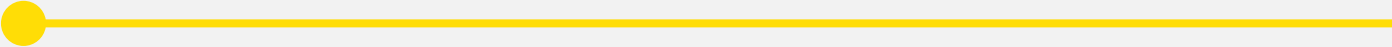


Easy installation

Model	Zineric O2 5,12 kWh LV Wallmount
Battery type	LifePO4 (LFP)
Nominal voltage	51,2 V
Nominal capacity	5,12 kWh
Usable capacity	4,608 kWh
Design life	+10 years (25°C/77°F)
Dimension (mm)	475x221x675
Weight (kg)	59,6
Cycle life	>6000 cycles (25°C±2°C, 80% DOD)
Discharge voltage	44,8 V
Charge voltage	56,8 V
Charge current	50 A (recommended); 100 A (max)
Internal resistance	≤30mΩ
Power consumption	<2 W (work) < 100 mW (sleep)
Monitoring parameters	System voltage, current, cell voltage, cell temperature, module temperature
SOC	Intelligent algorithm
Communication	CAN/RS-485
Operating temperature range	Charge temperature 0°C ~ 60°C; Discharge temperature -20°C ~ 60°C
Storage temperature range	-20°C ~ 45°C
Humidity	15% ~ 85% (no condensing)
Product warranty	5 years
Performance warranty	5 years



Inverter manufacturer	Type	Communication	Zineric F2	Zineric O1&O2
	SUN-SG01LP1 series	CAN	90% tested	✓
	SUN-SG03LP1 series	CAN	90% tested	✓
	SUN-SG04LP1 series	CAN	90% tested	✓
	SUN-SG04LP3 series	CAN	90% tested	✓
	CW-BP	CAN		✓
	SBP GW-ES	CAN		✓
	EM	CAN		✓
	S5-EA1P3K-L	CAN	✓	✓
	S6-EA1P(3.6-6)K-L	CAN	✓	✓
	S6-EO1P(4-5)K-48	CAN	✓	✓
	S5-EH1P(3-6)K-L	CAN	✓	✓
	S6-EH1P(3-6)K-L-EU	CAN	✓	✓
	SI 4.4-M	CAN		✓
	SI 6.0-H	CAN		✓
	SI 8.0-H	CAN		✓
	SI 6048US	CAN		✓
	ME3000SP	CAN		✓
	HYD series	CAN		✓
	HYS-LV Series	CAN		✓
	HAS-LV Series	CAN		✓
	Multiplus 48V (via Venus OS)	CAN		✓
	Quattro 48V (via Venus OS)	CAN		✓



Inverter manufacturer	Type	Communication	Zineric F2	Zineric O1&O2
	PLENTICORE plus	CAN		✓
	PLENTICORE plus G2	CAN		✓
	PLENTICORE BI xx/26	CAN		✓
	PLENTICORE BI xx/26 G2	CAN		✓
	PLENTICORE G3	CAN		✓
	SPH 3000 - 10000	CAN		with Cerbo GX
	SPF 2000 - 5000	CAN		with Cerbo GX
	SPF 5000 ES / SPF 6000 ES PLUS	CAN		✓
	WIT	CAN		✓
	T-REX-4-6KLP3G01 (4-6 kW)	RS485	✓	✓
	T-REX-10KLP3G01	RS485	✓	✓
	T-REX-3K6P1G01	RS485	✓	✓
	ASW3000-6000H-S2	CAN		✓

Cable arrangement in pins for communication with inverters

NO.	Deye	Goodwe	Solis	Sungrow	Afore	Sofar	Hoymiles	Victron	Felicity
PIN 1	X	X	X	X	X	CAN_H	X	X	X
PIN 2	X	X	X	X	X	CAN_L	X	X	X
PIN 3	X	X	X	X	X	X	X	X	CAN_L
PIN 4	CAN_H	CAN_H	CAN_H	CAN_H	CAN_H	X	CAN_H	X	CAN_H
PIN 5	CAN_L	CAN_L	CAN_L	CAN_L	CAN_L	X	CAN_L	X	X
PIN 6	X	X	X	X	X	X	X	X	X
PIN 7	X	X	X	X	X	X	X	CAN_H	X
PIN 8	X	X	X	X	X	X	X	CAN_L	X

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ZC-2

Zineric ZC-2 100/215 kWh

All-in-one Air Cooling MPPT



Sensors detecting: smoke, fire, leak, carbon dioxide, excessive moisture



Flexibility of scaling - possibility to connect 10 units together to achieve parameters of 1 MW / 2 MWh



Air cooling – stable operation even at high temperatures



Plug & Play installation - quick installation and easy integration with the system

Model		Zineric ZC-2 100/215 kWh All-in-one Air Cooling MPPT
DC		
Ogniwo		LFP 280 Ah
Liczba MPPT		2
Napięcie robocze MPPT/Napięcie pełnego obciążenia		250 ~ 850 / 450 ~ 850
Ochrona		Wyłącznik i bezpiecznik
Pojemność układu		14,336 kWh / 1P16S
Maksymalne napięcie PV		1000 V / 120 kW
Pojemność systemu		215 kWh / 1P240S
Prąd znamionowy		140 A
Szybkość ładowania/rozładowania		≤ 0,5 Cp
Sprawność DC		94%
AC (OnGrid)		
Moc znamionowa wyjściowa		100 kW
Nominalne napięcie wejściowe		AC 340 V ~ 460 V
Współczynnik mocy		- 1 ~ 1
Nominalny prąd wyjściowy		144 A
Nominalna częstotliwość sieci		50 Hz / 60 Hz
Okablowanie		3P + N + PE
AC (OffGrid)		
Moc znamionowa wyjściowa		100 kW
Nominalne napięcie wejściowe		AC 400 V
THD		Liniowy ≤ 1% / Nieliniowy ≤ 5%
Nominalny prąd wyjściowy		144 A
Nominalna częstotliwość sieci		50 Hz / 60 Hz
Okablowanie wyjściowe		3P + N + PE (transformator izolowany, sts wewnątrz)
System		
Całkowita wydajność systemu		87% & 0,5P (STD)
Komunikacja		RS485, CAN, TCP/IP
Zapobieganie pożarom		FK5112
DOD		5 ~ 95%
Chłodzenie / Moc chłodzenia		Wymuszona klimatyzacja / 1,1 kW ~ 3 kW
Temperatura pracy		-20°C ~ 50°C
Ochrona obudowy		IP54
Zakres wilgotności względnej		5 ~ 95% RH (bez kondensacji)
Maksymalna wysokość pracy		≤ 3000 m
Waga / Wymiary (mm)		3900 kg / 2450x1550x2400

ZC-1



PV and ESS Integration

Emergency backup

Cloud Platform Planning

Peak shaving and valley filling

Micro-grid

Zineric ZC-1 50/100 kWh All-in-one Air-Cooling Inverter Slot

Technical specification



Dimensions	1100x2380x1100
Weight	< 1,5 T
Installation location	Outside
Protection level	IP54
Anti-corrosion level	C4
Humidity	5% ~ 95% (non-condensing)
Operating temperature range	-30°C ~ 50°C
Height	4000 m (> 3000 m depreciation)
Communication port	Ethernet; CAN
Communication protocol	CAN; TCP
Cooling method	Air conditioner
Certificates	IEC 62619-2017; UN 38.3; IEC 61000-6-2/4

Work with:

GROWATT

Afore

SCFAR

solis

Deye



ZI-1

ZI-2

Zineric ZI-1 0,5/1 MWh PCS Air-Cooling Container

Zineric ZI-2 5 MWh no-PCS Liquid-Cooling Container



LFP Tier-1 Battery Cells



Modular design



Plug-and-Play



Dual Fire Suppression System



24/7 monitoring



Intelligent fluid refill



Fast delivery



Internal BMS





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Service:
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