

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.



ZINERIC is energy storage:

<mark>Fo</mark>r home

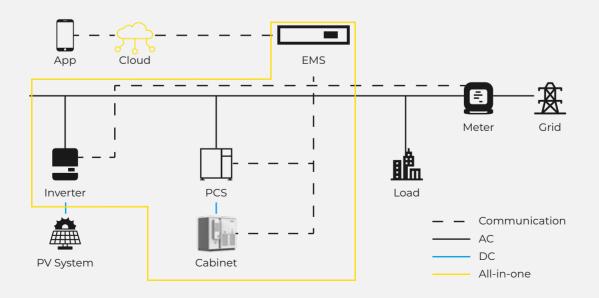
- · Zineric F1 Energy Storage 5,12 kWh HV Stack Tower
- Zineric F2 Energy Storage 5,12 kWh LV Stack Tower
- Zineric OI Energy Storage 5,12 kWh LV Rack
- · Zineric O2 Energy Storage 5,12 kWh LV Wallmount Ściana/Podłoga

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



Auto-protection against overvoltage, current, temperature



Long warranty: 10 years (up to 6000 cycles)



P

LCD touch panel



Automatic identification of modules



Scalable structure (up to 30.72 kWh)



Aerosol fire extinguishing system



Modern design

Technical specification

• ZINERIC

Model	Zineric F1 5,12 kWh HV Stack Tower					
Battery type	LiFeP04					
Module energy			5,2 k	Wh		
Module nominal voltage			102,4	ίV		
Module capacity			50 A	۸h		
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			IP6	5		
Operating temperature range		Charging :()~ + 55°C / Disc	charging: -20°	C∼ + 55°C	
Storage temperature range			0°C~+	35°C		
Humidity			5%~9	95%		
Height			<2000) m		
Life Cycle			> 6000	cycles		
Installation		Multi-st	orey installatio	on / floor instal	lation	
Security		Built-in int	celligent BMS :	system, circuit	breaker	
Communication port			RS485,	/CAN		
Warranty period			10 ye	ars		
Weight of the control module			24,5	kg		
Control module dimensions			600 x 385 x	200 mm		
Battery module weight			57,5	kg		





Inverter manufactu	ırer Type	Communication	Zineric F1
Dava	SUN-5~25K-SG01HP3-EU/AU	CAN	✓
Deye	SUN-29.9~50K-SG01HP3-EU/AU	CAN	✓
	GW5KN-10KN-ET+	CAN	✓
_	BT(5K-10K)	CAN	✓
_	EH(3K-6K)	CAN	✓
GOODWE	BH(3K-6K)	CAN	✓
	EHB	CAN	✓
_	GW40-50K-ET-10	CAN	✓
_	GW6-15K-ET-20	CAN	✓
	RHI-3P-HVES-5G series	CAN	✓
🌋 solis	S6-EH3P(5-10)K-H-EU	CAN	✓
	S6-EH3P(29.9-50)K-H	CAN	✓
	SH.5.0	CAN	90% tested
SUNGROW -	SH.6.0	CAN	90% tested
	SH.8.0	CAN	90% tested
-	SH.10.0	CAN	90% tested
	HYD 10000	CAN	90% tested
SCIFAR	HYD 15000	CAN	90% tested
-	HYD 20000	CAN	90% tested
	HYT-HV Series	CAN	✓
(hoymiles	HAT-HV Series	CAN	✓

• **ZINERIC**

Inverter manufact	urer Type	Communication	Zineric F1
	AF3~9.6K-DH Series	CAN	~
	AF3~30K-TH Series	CAN	✓
	AF3~12K-THP Series	CAN	✓
	AF3~17K-THA Series	CAN	✓
Afore	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	✓
Gelicitysolar®	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	Х	Х	Х	Х	CAN_H	Х
PIN 2	Х	Х	Х	Х	Х	Х
PIN 3	Х	Х	Х	Х	CAN_L	Х
PIN 4	CAN_H	CAN_H	CAN_H	CAN_H	Х	Х
PIN 5	CAN_L	CAN_L	CAN_L	CAN_L	Х	Х
PIN 6	Х	Х	Х	Х	Х	Х
PIN 7	Х	Х	Х	Х	Х	CAN_L
PIN 8	Х	Х	Х	Х	Х	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.



Zineric F2 Energy Storage

5,12 kWh LV Stack Tower



IP65 protection level



Auto-protection against overvoltage, current, temperature



Long warranty: 10 years (up to 6000 cycles)



(5,12 kWh)

BMS with built-in battery



Automatic identification of modules



Scalable structure (up to 40.96 kWh)



Aerosol fire extinguishing system



LCD panel

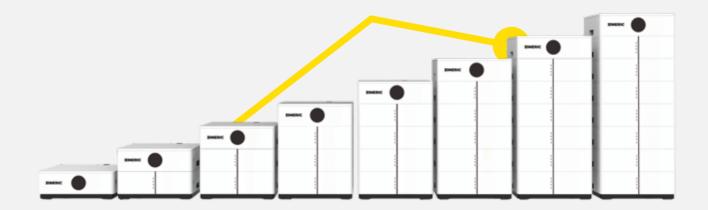
Technical specification



Model	Zineric F2 5,12 kWh LV Stack Tower					
Battery type			LiFeF	P04		
Nominal energy			5,12 k	Wh		
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 kWł
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			IP2	21		
Operating temperature range		Charge: 0) ~ + 55°C/Disc	charge: -20°C ~	+ 55°C	
Storage temperature range			0°C ~ +	35°C		
Humidity			5% ~ 9	95%		
Height			<200	0 m		
Life cycle			> 6000	cycles		
Installation		,	Wall mount /	Floor mount		
Security		Built-in intell	igent BMS sys	stem, circuit br	eaker, fuse	
Communication port			RS485	/CAN		
Warranty period			10 ye	ars		
Weight of the control module			46	<g< td=""><td></td><td></td></g<>		
Control module dimensions			600 x 450 x	k 180 mm		
Battery module weight			46	<g< td=""><td></td><td></td></g<>		
			600 (50	100		

Battery module dimensions

600 x 450 x 180 mm





Zineric O1 Energy Storage

5,12 kWh LV Rack

24/7 monitoring



Home Security



Displaying the charge level



Long service life



Auto-protection against overvoltage, current, temperature



High scalability (up to 81,92 kWh)



Small size



Easy installation

Technical specification



ModelZineric 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



Home Security



Displaying the charge level



Wall or ground mounting



Long service life



Auto-protection against overvoltage, current, temperature



High scalability (up to 20.48 kWh)



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 manufa	cturer Type Com	munication	Zineric F2	Zineric 01&02
	SUN-SG01LP1 series	CAN	90% tested	✓
Deve	SUN-SG03LP1 series	CAN	90% tested	~
Deye	SUN-SG04LP1 series	CAN	90% tested	✓
	SUN-SG04LP3 series	CAN	90% tested	~
	GW-BP	CAN		~
GOODWE	SBP GW-ES	CAN		~
	EM	CAN		~
	S5-EA1P3K-L	CAN	1	~
solis	S6-EA1P(3.6-6)K-L	CAN	1	~
	S6-E01P(4-5)K-48	CAN	1	~
	S5-EH1P(3-6)K-L	CAN	1	~
	S6-EH1P(3-6)K-L-EU	CAN	1	✓
	SI 4.4-M	CAN		✓
SMA	SI 6.0-H	CAN		✓
	SI 8.0-H	CAN		✓
	SI 6048US	CAN		✓
	ME3000SP	CAN		~
SCIFAR	HYD series	CAN		~
	HYS-LV Series	CAN		~
hoymiles	HAS-LV Series	CAN		~
wictron energy	Multiplus 48V (via Venus OS)	CAN		~
	Quattro 48V (via Venus OS)	CAN		✓



Inverter manufa	cturer Type Comr	nunication	Zineric F2	Zineric 01&02
	PLENTICORE plus	CAN		√
	PLENTICORE plus G2	CAN		✓
KOSTAL	PLENTICORE BI xx/26	CAN		✓
	PLENTICORE BI xx/26 G2	CAN		✓
	PLENTICORE G3	CAN		✓
	SPH 3000 - 10000	CAN		with Cerbo GX
GROWATT	SPF 2000 - 5000	CAN		with Cerbo GX
	SPF 5000 ES / SPF 6000 ES PLUS	CAN		✓
	WIT			✓
	T-REX-4-6KLP3G01 (4-6 kW)	RS485	~	✓
Belicitysolar®	T-REX-10KLP3G01	RS485	~	✓
	T-REX-3K6P1G01	RS485	~	✓
Solplanet	ASW3000-6000H-S2	CAN		~

Cable arrangement in pins for communication with inverters

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

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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 Z	ineric ZC-2 100/215 kWh All-in-one Air Cooling MPPT
DC	
Link	LFP 280 Ah
Number of MPPTs	2
MPPT Operating Voltage/Full Load Voltag	ge 250 ~ 850 / 450 ~ 850
Security	Switch and fuse
System capacity	14,336 kWh / 1P16S
Maximum PV voltage	1000 V / 120 kW
System capacity	215 kWh / 1P240S
Rated current	140 A
Charge/discharge speed	≤ 0,5 Cp
DC efficiency	94%
AC (OnGrid)	
Rated output power	100 kW
Nominal input voltage	AC 340 V ~ 460 V
Power factor	-] ~]
Nominal output current	144 A
Nominal network frequency	50 Hz / 60 Hz
Wiring	3P + N + PE
AC (OffGrid)	
Rated output power	100 kW
Nominal input voltage	AC 400 V
THD	Linear ≤ 1% / Non-linear ≤ 5%
Nominal output current	144 A
Nominal network frequency	50 Hz / 60 Hz
Output wiring	3P + N + PE (isolated transformer, sts inside)
System	
Total system performance	87% & 0,5P (STD)
Communication	RS485, CAN, TCP/IP
Fire prevention	FK5112
DOD	5 ~ 95%
Cooling / Cooling power	Forced air conditioning / 1,1 kW ~ 3 kW
Operating temperature	-20°C ~ 50°C
Housing protection	IP54
Relative humidity range	5 ~ 95% RH (no condensation)
Maximum working height	≤ 3000 m
Weight / Dimensions (mm)	3900 kg / 2450x1550x2400



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

echnical 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





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





Contact:

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