ALFA
N-Z All-in-One Energy Storage System

The ALFA N-Z INDUSTRIA is a high-capacity, modular, and scalable all-in-one energy storage system tailored for commercial and high-demand residential applications such as EV charging, commercial facilities, and energy backup. It integrates powerful hybrid inverters and high-voltage LiFePO■ battery modules in a compact indoor floor-mounted cabinet, offering flexibility, performance, and expandability up to 1 MWh.

GENERAL DATA

Inverter Capacity	20 – 40 kW (Hybrid, Three-Phase)
System Type	DC Coupled
Solar PV Capacity	60 – 80 kW
Solar Voltage Range	150 – 1000 V
Application	Commercial / High-Demand Residential
Stackable System	Yes (Up to 1 MWh)
Monitoring	Display Screen & Mobile App
Mounting	Floor Standing (Indoor)
Communication	CAN / Ethernet

BATTERY

Capacity Range	67 – 101 kWh(4 and 6 modules) 16.8KW/Module
Voltage Range	170 – 500 VDC/48v
Max Charge Current	150A/Module
Max Discharge Current	150A/Module
Battery Chemistry	LiFePO4
Cycle Life	8000+ cycles @ 80% DOD
Scalability	10 Stacks (side by side)

INVERTER OUTPUT

Nominal Power	20 – 40 kW
Output Voltage	400V AC (Three-Phase)
Output Frequency	50/60 Hz
Efficiency	> 97%
MPPTs	2 – 4 Inputs

ENVIRONMENT

Cooling	Forced Air (Industrial Fans if needed)
Operating Temp	-10°C to 50°C
Humidity	0% – 95% RH (non-condensing)
Protection Rating	IP54 (Indoor Rated)
Altitude	N /A

PHYSICAL

Dimensions (mm)	800 × 600 × 2000-1300
Weight	730 kg

Housing	Reinforced Steel

[Product Image]