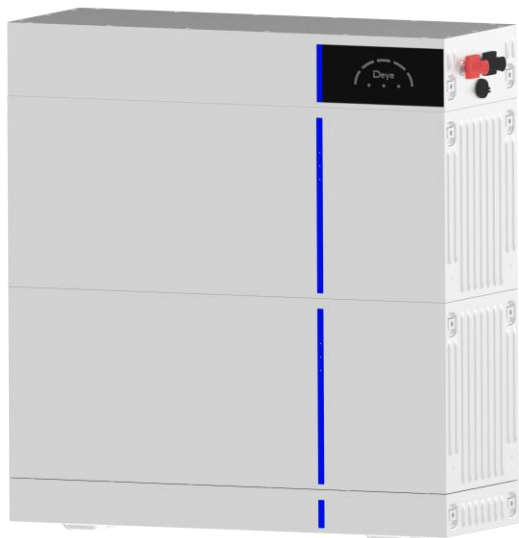


AI-W5.1-10kWh



◆ Safer

Cobalt Free Lithium Iron Phosphate (LFP) Battery, safety and long lifespan, high efficiency and high-power density. Intelligent BMS, providing complete protection.

◆ Reliable

Support high discharge power. IP65, natural cooling, wide temperature range: -20°C to 55°C.

◆ Flexible

Modular design, 5.12kWh module, stacked mounting. Suited to residential and commercial applications for increasing the self-consumption ratio.

◆ Convenient

Battery module auto networking, automatic IP addressing, easy maintenance, remotely monitoring and upgrade the firmware.

◆ Eco-Friendly

Use environmental protection materials, the whole module non-toxic, pollution-free.

◆ Quick Installation

Flat and stackable design, floor-mounted, no wiring and extra fixing screws, rapid and easy installation.

Model		AI-W5.1-10kWh
Main Parameter		
Battery Chemistry		LiFePO4
Battery Module Energy (kWh)		5.12
Battery Module Voltage (V)		51.2
Battery Module Capacity (Ah)		100
Scalability		2
Nominal Voltage (V)		51.2
Operating Voltage(V)		43.2~57.6
Energy (kWh)		10.24
Usable Energy (kWh) ^[1]		9.2
Charge/Discharge Current (A)	Recommend ^[2]	100
	Max. ^[2]	180
	Peak(10s,25°C)	270
Other Parameter		
Recommend Depth of Discharge		90%
System Dimension (W/D/H, mm)		720*255*765
System Weight (kg)		124
Battery Module Dimension(W/D/H, mm)		720*255*285
Battery Module Weight (kg)		53
Master LED Indicator		5LED(SOC:20%~100%), 3LED (working, alarming, protecting)
IP Rating of Enclosure		IP65 (after stacked)
Operating Temperature		Charge: 0~55°C / Discharge: -20°C~55°C
Storage Temperature		-20°C ~ 35°C
Humidity		5%~95%
Altitude		≤2000m
Cycle Life ^[3]		≥6000(25°C±2°C,0.5C/0.5C,70%EOL)
Installation		Floor-Mounted
Communication Port		CAN2.0, RS485
Warranty Period ^[3]		10 years
Energy Throughput		16MWh(Battery Module @70%EOL)
Certification		IEC62619, CE, UK, VDE2510-50, CEI 0-21, UN38.3, CE-LVD, CEC

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.

[3] Conditions apply, refer to Deye Warranty Letter.

Introduction

This series lithium iron phosphate battery is one of new energy storage products developed and produced by Deye , it can be used to support reliable power for various types of equipment and systems.

This series is especially suitable for application scene of high power, limited installation space, restricted load-bearing and long cycle life.

This series has built-in BMS battery management system, which can manage and monitor cells information including voltage, current and temperature. What's more, BMS can balance cells charging to extend cycle life. Multiple batteries can connect in parallel for larger capacity and longer power supporting.

Model	Accessories Parts Description	Remark
AI-W5.1 (individual package)	5.12kWh Battery Module	Stacked battery modules, each 5.12kWh, a single string can be stacked and installed 1~4 (battery capacity 5~20kWh)
AI-W5.1-PDU1+Base (individual package)	AI-W5.1-PDU1 (Included)	Battery power and communication interface connect with Inverter and LED display system status
	AI-W5.1-Base (Included)	The bottom support seat
	AI-W5.1-PCable1500 (Included)	Battery power and communication cable connect with hybrid inverter



Model: AI-W5.1-PDU1

Details: 720*255*110(W x D x H,mm), 10kg



Model: AI-W5.1-Base

Details: 720*255*85(W x D x H,mm), 8kg



Model: AI-W5.1-PCable1500

Details: Pair of 2/0AWG DC power cable (one end has a waterproof terminal, the other end is M10 copper terminal) and RJ45 communication cable connect with hybrid inverter (one end has a waterproof terminal) .The default length is 1500mm.