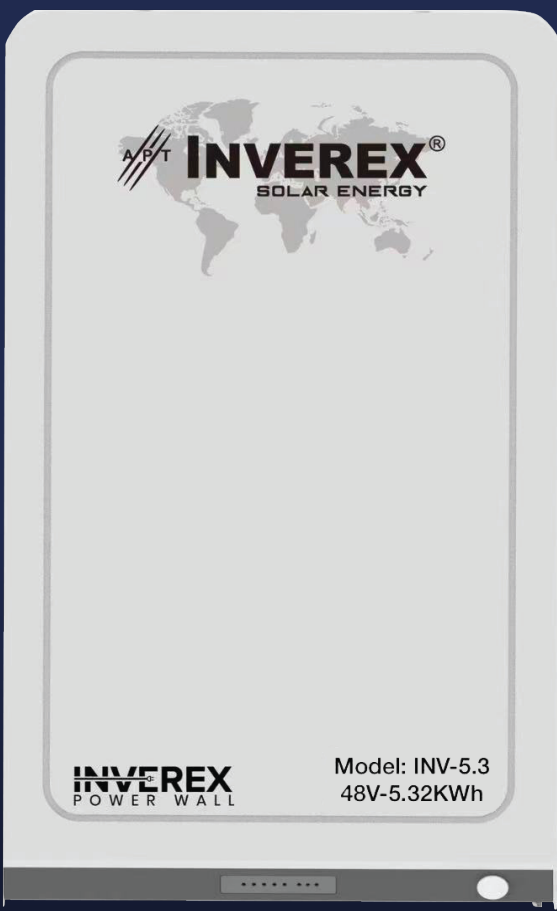




**APT INVEREX<sup>®</sup>**  
SOLAR ENERGY



# INVEREX<sup>®</sup>

POWER WALL

## INV-5.3 48V-5.32KWh

- **Safer**  
Cobalt Free Lithium Iron Phosphate (LFP) Battery, safety and long lifespan, high efficiency and high-energy density.
- **Reliable**  
Intelligent BMS, providing complete protection. Natural cooling, IP20, wide temperature range: -20°C to 55°C.
- **Flexible**  
Modular design, easy to expand, Max. 32 units in parallel, Max.capacity of 170kWh. Suited to residential and commercial applications for increasing the self-consumption ratio.
- **Convenient**  
Battery module auto networking, easy maintenance, support remotely monitoring and upgrade, support USB drive upgrade the firmware.
- **Eco-Friendly**  
Use environmental protection materials, the whole module non-toxic, pollution-free.
- **Wall-Mounted & Rack-Mounted**  
Flat design, support wall-mounted or 19inch rack, saving installation space.



**IP20**



**LiFePO4**

Model		INV-5.3
<b>Main Parameter</b>		
Battery Chemistry		LiFePO <sub>4</sub>
Capacity (Ah) <sup>[1]</sup>		104
Scalability		Max.32 pcs in Parallel(170kWh)
Nominal Voltage (V)		51.2
Operating Voltage(V)		43.2~57.6
Nominal Energy (kWh) <sup>[1]</sup>		5.32
Usable Energy (kWh) <sup>[1]</sup>		4.79
Charge/Discharge Current (A) <sup>[2]</sup>	Recommend <sup>[2]</sup>	50
	Max. <sup>[2]</sup>	100
	Peak	150 (2mins,25°C)
<b>Other Parameter</b>		
Recommend Depth of Discharge		90%
Dimension (W/H/D, mm)		440*581*165(Without hanging board and handle)
Weight Approximate(kg)		45
Master LED Indicator		5LED(SOC:20%~SOC100%), 3LED (working, alarming, protecting)
IP Rating of Enclosure		IP20
Operating Temperature		Charge:0 ~ +55°C / Discharge: -20°C ~ +55°C
Storage Temperature		0°C ~ +35°C
Humidity		5% ~ 95%
Altitude		≤2000m
Cycle Life		≥6000(25°C±2°C, 90% DOD, 0.5C/1C,70%EOL)
Installation		Wall-Mounted, 19inch Rack-mounted
Communication Port		CAN2.0, RS485
Warranty Period <sup>[3]</sup>		5 years
Energy Throughput <sup>[3]</sup>		16MWh@70%EOL
Certification		UN38.3, CE, IEC62619

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

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

[3] The warranty is due whichever reached first of warranty period or energy throughput.

### Introduction

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

This series is especially suitable for application scene of low 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 duration.

Multiple batteries can connect in parallel for larger capacity and longer power supporting duration requirements.