



### High Cycle Life

6500 cycles, over 15 years of service life  
Module-level charge/discharge optimization



### Highly Efficient

Device side and cloud integrated BMS intelligent algorithm, optimize charging and discharging strategy, support deep discharge, release more power



### High Safety and Reliability

Automotive grade lithium iron phosphate (LFP) cells  
Vehicle-grade BMS, multiple battery safety protection



### Convenient Installation

Ultra-thin Wall mount design, easy to install



### Smart and Controllable

Smart APP to grasp real-time power information  
All kinds of status information at a glance

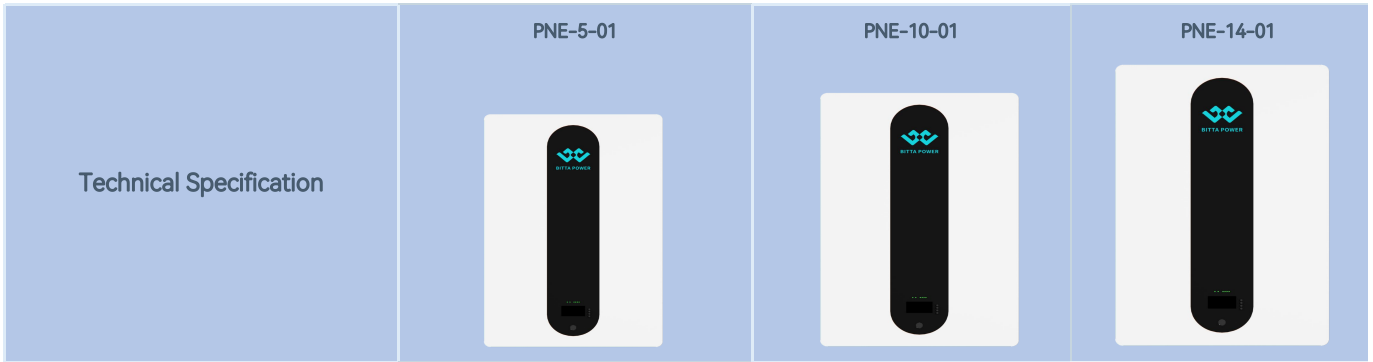


### Highly Compatible

Compatible with various brands of inverters for household use

# Powernest PNE-5/10/14-01 Specification

## Smart wall mount ESS



Performance			
Battery chemistry	LiFePO4		
Cycle Life(25±2°C,0.5C/0.5C,80%DOD)	≥6500		
Nominal voltage	51.2 V		
Capacity	100 Ah	200 Ah	280 Ah
Battery configuration	16S1P	16S2P	16S1P
Energy	5.12 kWh	10.24 kWh	14.34 kWh
Charge/Discharge current	Recommend	50 A	100 A
	Max.	100 A	150 A
	Peak(2mins,25°C)	120 A	200 A
Max. output power	5.1 kW	11.5 kW	11.5 kW
Max. support parallel connection	15 pcs		
Operating voltage	46 V – 56 V		

Communication	
Display	SOC:25% ~ 100%, LED
Communication port	RS485 / CAN2.0

General Specification			
Dimension (W x H x D)	440 x 580 x 160 mm (17.3 x 22.8 x 6.3 in)	570 x 660 x 160 mm (22.4 x 26.0 x 6.3 in)	675 x 900 x 200 mm (26.6 x 35.4 x 7.9 in)
Weight <sup>1</sup>	55 kg (121.2 lb)	88 kg (194 lb)	128.5kg (283.3 lb)
Recommend depth of discharge	90%		
Installation	Wall mount / Floor stand		
Working temperature	Charge: 0°C ~ + 55°C (32°F ~ 131°F, Battery life loss under 0°C) Discharge: -20°C ~ + 55°C (-4°F ~ 131°F, Battery life loss under 0°C)		
Max. operating altitude	4,000 m (13,123ft.) (Derating above 2,000 m)		
Installation environment	Indoor <sup>2</sup> ( *Please refer to the user manual for installation conditions)		
Operating humidity	5%RH ~ 95%RH		
Cooling mode	Natural convection		
IP Rating of enclosure	IP20		
Warranty	10 years (free) , 15 years (paid)		

Certification	
Certificates	UL1973, CE-EMC, MSDS, UN38.3



\*1 The weight of the battery module is subject to the actual product, with a tolerance of ±3%.

\*2 Energy storage system installation is related to product warranty, safe and stable operation, please follow the user manual requirements for standard installation, use and routine maintenance.