





High Cycle Life

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



Convenient Installation

Ultra-thin Wall mount design, easy to install



Highly Efficient

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



Smart and Controllable

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



High Safety and Reliability

Automotive grade lithium iron phosphate (LFP) cells

Vehicle-grade BMS, multiple battery safety protection



Highly Compatible

Compatible with various brands of inverters for household use

Powernest PNE-5-02 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		
Battery comfiguration		16S1P		
Energy		5.12 kWh		
Charge/Discharge current	Recommend	50 A		
	Max.	100 A		
	Peak(2mins,25°C)	120 A		
Max. output power		5.1 kW		
Max. support parallel connection		15 pcs		
Operating voltage		41.6 V - 58.4 V		

Communication		
Master LED Indicator	Υ	
Communication Port	RS485 / CAN2.0	

General Specification			
Dimension (W x H x D)	490 x 610 x 161 mm (19.3 x 24.0 x 6.3 in)		
Weight ¹	50.5 kg (111.3 lb)		
Recommend Depth of Discharge	90%		
Installation	Wallmounted		
Working Temperature	Charge: $-10^{\circ}\text{C} \sim +55^{\circ}\text{C} (14^{\circ}\text{F} \sim 131^{\circ}\text{F})$ Discharge: $-20^{\circ}\text{C} \sim +60^{\circ}\text{C} (-4^{\circ}\text{F} \sim 140^{\circ}\text{F})$		
Storage Temperature	0°C ~ + 35°C (32°F ~ 95°F)		
Max. operating altitude	2000 m (6561 ft.)		
Installation Environment	Indoor3(*Please refer to the user manual for installation conditions)		
Humidity	5% RH ~ 95%RH		
Cooling mode	Natural Convection		
IP Rating of Enclosur	IP 65		
Warranty	10 years (free) , 15 years (paid)		

Certification		
Certificates	UN38.3, UL1973, UL9540A, CE, RCM, MSDS	















^{*1} The weight of the batterymodule 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.