

Pi station 186



Introduction

Pytes air cooling battery cabinet integrates battery modules with a full configuration capacity of 186kWh. And can be widely used in various application scenarios such as generation and transmission grid, distribution grid, new energy plants.

Features



Flexible

- All-in-one design and highly integrated
- Modular design with different optional parts.



Compatible

- Grid-tied and Off-grid
- 208/400/480Vac 3P4W
- Optional PV input
- Optional backup module



Easy-to-Install

- IP54 rated
- Parallel installation back-to-back



Compliance

- Global grid certified & listed
- Compliance with global safety standards.

Technical Specifications

Module	PI STATION 186
System Specificatoin	
Battery Chemistry	LFP (LiFePO ₄)
Nominal Output Power	30kVA*n (1~3)
Battery Capacity	186.368kWh
Battery Nominal Voltage	665.6V
Battery Charging and Discharging Voltage Range	200V-750V (350V-750V @full load) (Due to the electrical design different with the 30P module)
Recommended Charging/ Discharging Current	140A
Fire Fighting System	1.Sensor Tube(Aerosol) 2. Water Fire Fighting System 3. Heat/Smoke/Gas sensor 4. Explosion Relief Panel(Optional) or Exhaust & Ventilation System(Optional)
Cycle life	≥ 5000 ^[1] (25°C±3, 0.5C/0.5C, 80%EOL)
DOD	90%
Warranty	3 Year Product Warranty, 10 Year Battery Warranty
AC Side	
Rated Output Power	30kVA*n (1~3)
Maximum Apparent Power	33kVA*n (1~3)
Maximum Active Power	30kW*n (1~3)
AC power range	30kW (400 Or 480Vac & 350-750Vdc) *n units (n=1,2,3) 15kW (400 Or 480Vac & 150-350Vdc) *n units (n=1,2,3)
AC Voltage Grid-tied	400V(-15%~15%)3P4W+PE/480V(-15%~15%)3P4W+PE
AC Voltage Off-grid	400V(-20%~20%)3P4W+PE/480V(-5%~5%)3P4W+PE
AC Frequency	50Hz/60Hz(-2.5Hz~2.5Hz)
THDi	<3%
PV Side(Optional)	
Max units	2
PV Input Power	45kW*n units (n=1,2) 3 branches *15kW (per 45kW)
PV Input Voltage Range	250V-830V
MPPT Voltage Range	200~750V (430~750V @full load)
Maximum Input Current	65A*n (1~2)
Auto-switching Compatibility(Optional)	
Rated Power	150KVA (AC208V) 300KVA(AC400V) 360kVA (AC480V)
Switching Time	Active Switching: Seamless Passive Switching: 20ms
Communication	
Communication port	RS485/Ethernet
Communication protocol	Modbus TCP/RTU

Mechanical	
Dimensions(W*D*H)	2100*1200*2544.8mm
Weight	2900kg
Cooling System	Forced air cooling for power electronics 5kW Air-conditioned for battery system (pre-installed)
IP protection	IP54
Environmental	
Reactive Humidity	0-95% (No condensing)
Operating Temperature Range	-20°C~55°C (Derating over 45°C)
Altitude	2000m (>2000m derating)
Regulations	
Certification	CELL: IEC62619, UL1973, UL1642, UL9540A, GB/T 36276-2018, GB/T 36276-2023, IS16046(Part 2):2018, GB, GD22-2019, 2006/66/EC, RoHS, GB/T 30512, UN38.3
	Module: GB/T 36276, UL9540A, UN38.3
	Unit: GB/T 36276, IEC62619, IEC63056, IEC62477, IEC62040, CE-EMC, UL1973, UL9540A, UN38.3
	PCS: GB/T34120-2017 CE VDE-AR-N 4105:2018 TOR Erzeuger TypeA V1.2:2022 /OVE-Richtlinie R 25:2020 DIN VDE 0126-1-1:2013(with national deviation of France: DIN VDE 0126-1-1WER 2019) EN 50549-1:2019+AC:2019-04 NRS 097-2-1:2017 Edition 2.1
[1] Under specific test conditions	

Dimensions

