



Portable Standard Type Batteries



PORTABLE ENERGY STORAGE SYSTEMS



Reliable, Durable, and Advanced Energy Solutions for Modern Needs

Pomega portable batteries are engineered to ensure seamless operation, maximizing productivity and minimizing downtime. Designed for durability and reliability, Pomega's portable batteries are equipped with advanced technology and intelligent management systems, delivering consistent energy even in strenuous conditions. Expect unwavering reliability, enhanced productivity, and sustainable energy solutions with Pomega. Pomega portable batteries are the perfect energy storage solutions for L7 class vehicles, electric golf carts, and small area transportation.

MOBILITY APPLICATIONS

- Easy installation and operation
- 12V, 24V, 48V, 80V and 400V battery designs
- Long Lifetime
- Increaseable capacity
- Off-Grid Application
- High Level Protection
- Modular structure
- Elegant Design

Basic Properties	PBK-12100	PBK-12200	PBK-24100
Cell Type	LiFePO4 - Prismatic		
Nominal Voltage	12.8V		25.6V
Operating Voltage Range	11.2V - 14.2V		22.4V - 28.4V
Nominal Capacity (*)	100Ah	200Ah	100Ah
Nominal Energy Capacity	1280Wh	2560Wh	2560Wh
Max. Charge Voltage	14.2V		28.4V
Recommended Charge/Discharge Current	30A/30A	50A/50A	30A/30A
Max. Cont. Charge/Discharge Current	60A/60A	100A/100A	60A/60A
Max. Charge/Discharge Current (<30s)	-		
Capacity By Temperature	100 % (25°C), 94 % (0°C)		
Cycle Life (*)	≥6000 Cycles		
Normal Operating Temperature	25°C		
Charging Temperature	0~50°C		
Discharging Temperature (**)	-20~50°C		
Storage Temperature	-20~55°C		
Warranty	10 Years		
Functional Properties			
BMS Protections	UV, OV, OC, UT, OT, SC		
Screen	Yes (2.2 Inches)		
Communication Interfaces	Bluetooth		
CAN Communication Protocols	-		
Parallel Connection	Yes (with initial manual balancing)		
Serial Connection	No		
Safety Relay Control	No		
Dry Contacts	No		
Protective Vent	Yes		
Internal Self Heating	No		
Physical Properties			
Battery Case Material	PC-ABS		
Power Terminals	M8 Screw In		
Protection Level	IP65		
Humidity	5% - 85% RH (non-condensing)		
Altitude	<3000 m		
Dimension (WxDxH)	279x205x215 mm	475x205x215 mm	475x205x215 mm
Weight	13±1 kg	22±1 kg	22±1 kg

(*) Test Conditions: 25°C, 90% DOD, 0.5C Charge/Discharge
 (**) Performance may vary in different conditions



Portable Marine Type High Performance Batteries



MARINE ENERGY STORAGE SYSTEMS



Effortless Efficiency

Pomega's Marine Energy Storage Systems revolutionize marine exploration by offering exceptional cycle life, high energy density, and superior safety. With LiFePO₄ technology, vessels are no longer tethered to shore power, ushering in a new era of sustainable and independent exploration.

These systems provide extended range, exceptional power delivery, and rapid recharge capabilities, empowering vessels to venture further into uncharted territories and power demanding onboard systems effortlessly. Additionally, Pomega prioritizes sustainability by minimizing environmental impact through the use of non-toxic materials, seamless integration with solar panels for self-sufficient energy, and extended battery lifespans to reduce waste.

With compact designs and minimal maintenance requirements, Pomega's Marine Energy Storage Systems optimize onboard space and streamline operations, while advanced battery management systems ensure safety and maximize lifespan. Choose innovation, sustainability, and unparalleled performance with Pomega for an exhilarating nautical experience.

APPLICATIONS

- Easy Installation and Operation
- Increaseable Capacity
- Modular Structure
- 12V, 24V, 48V, 80V and 400V Battery Designs
- Off-Grid Application
- Elegant Design
- Long Lifetime
- High Level Protection
- Communication interface bluetooth and CANBus
- Serial Connection

Basic Properties	PBM-12100	PBM-12200	PBM-24100
Cell Type	LiFePO4 - Prismatic		
Nominal Voltage	12.8V		25.6V
Operating Voltage Range	11.2V - 14.2V		22.4V - 28.4V
Nominal Capacity (*)	100Ah	200Ah	100Ah
Nominal Energy Capacity	1280Wh	2560Wh	2560Wh
Max. Charge Voltage	14.2V		28.4V
Recommended Charge/Discharge Current	50A/50A	100A/100A	50A/50A
Max. Cont. Charge/Discharge Current	100A/100A	200A/200A	100A/100A
Max. Charge/Discharge Current (<30s)	200A/200A	400A/400A	200A/200A
Capacity By Temperature	100 % (25°C), 94 % (0°C)		
Cycle Life (*)	≥6000 Cycles		
Normal Operating Temperature	25°C		
Charging Temperature	-20~50°C		
Discharging Temperature (**)	-20~50°C		
Storage Temperature	-20~55°C		
Warranty	10 Years		
Functional Properties			
BMS Protections	UV, OV, OC, UT, OT, SC		
Screen	No		
Communication Interfaces	Bluetooth, CAN		
CAN Communication Protocols	NMEA2000		
Parallel Connection	Yes (up to 8 batteries)		
Serial Connection	Yes (up to 48V)		
Safety Relay Control	Yes (over relay connector)		
Dry Contacts	No		
Protective Vent	Yes		
Internal Self Heating	Yes (integrated thermal heat-pad with control)		
Physical Properties			
Battery Case Material	PC-ABS		
Power Terminals	M8 Screw In		
Protection Level	IP65		
Humidity	5% - 85% RH (non-condensing)		
Altitude	<3000 m		
Dimension (WxDxH)	279x205x215 mm	475x205x215 mm	475x205x215 mm
Weight	13±1 kg	22±1 kg	22±1 kg

(*) Test Conditions: 25°C, 90% DOD, 0.5C Charge/Discharge
 (**) Performance may vary in different conditions