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	Off-Grid Application	Communication interface bluetooth and CANBus
O Increasable Capacity	Elegant Design	Serial Connection
Modular Structure	O Long Lifetime	High Level Protection

Pomega P

Portable High Performance Batteries







Cell Type		•		
12.8V 25.6V	Basic Properties	PBM-12100	PBM-12200	PBM-24100
11.2V - 14.2V 22.4V - 28.4V	Cell Type	LiFePO ₄ - Prismatic		
100Ah 200Ah 100Ah 200Ah 100Ah 200Ah 100Ah 200Ah 100Ah 2560Wh 250A/50A 100A/100A 50A/50A 100A/100A 150A/150A 100A/100A 150A/150A 100A/100A 200A/200A 400A/400A 200A/200A 2	Nominal Voltage	12.8V		25.6V
1280Wh 2560Wh 2	Operating Voltage Range	11.2V - 14.2V		22.4V - 28.4V
Max. Charge Voltage 14,2V 28,4V Recommended Charge/Discharge Current 50A/50A 100A/100A 50A/50A Max. Cont. Charge/Discharge Current (**) 100A/100A 150A/150A 100A/100A Max. Charge/Discharge Current (<*15s)	Nominal Capacity	100Ah	200Ah	100Ah
Recommended Charge Discharge Current SOA/SOA 100A/100A SOA/SOA Max. Cont. Charge Discharge Current (*) 100A/100A 150A/150A 100A/100A 150A/150A 100A/100A 150A/150A 100A/100A 150A/150A 100A/100A 200A/200A	Nominal Energy Capacity	1280Wh	2560Wh	2560Wh
Max. Cont. Charge/Discharge Current (*) 100A/100A 150A/150A 100A/100A Max. Charge/Discharge Current (*15s) 200A/200A 400A/400A 200A/200A Capacity By Temperature 10% (\$5^*C), 94 % (0^*C) Cycle Life (**) Normal Operating Temperature 25 °C 20-50°C Charging Temperature (***) -20-50°C Discharging Temperature -20-55°C Warranty 10 years Rinctional Properties Warranty BMS Protections UV, OV, CV, CV, UT, OT, SC Screen No Communication Interfaces Bluetooth, CAN CAN Communication Protectos NMEA2000 Parallel Connection Yes (up to 48tyl) Safety Relay Control Yes (up to 48tyl) Safety Relay Control Yes (over relay connector) Dry Contacts No Protective Vent Yes (integrated thermal heat-pad with control) Compitable Inverter (****) Pylontech, Deye, Senergy (Communication : CANBUS, mainly ord; grid inverters) Epever (Communication : R548s, mainly off-grid inverters) Epever (Communication : R548s, mainly off-grid inverters)	Max. Charge Voltage	14.2V		28.4V
Max. Charge/Discharge Current (<15s)	Recommended Charge/Discharge Current	50A/50A	100A/100A	50A/50A
Capacity By Temperature	Max. Cont. Charge/Discharge Current (*)	100A/100A	150A/150A	100A/100A
\$6000 cycles	Max. Charge/Discharge Current (<15s)	200A/200A	400A/400A	200A/200A
Normal Operating Temperature	Capacity By Temperature	100 % (25°C), 94 % (0°C)		
Charging Temperature	Cycle Life (**)	≥6000 cycles		
Communication Properties	Normal Operating Temperature	25°C		
Storage Temperature	Charging Temperature	-20~50°C		
Warranty	Discharging Temperature (***)	-20~50°C		
### BMS Protections UV, OV, OC, UT, OT, SC Screen No Communication Interfaces Bluetooth, CAN CAN Communication Protocols Parallel Connection Yes (up to 8 batteries) Serial Connection Yes (up to 8 batteries) Serial Ronnection Yes (up to 48V) Safety Relay Control Yes (over relay connector) Proty Contacts No Protective Vent Yes Internal Self Heating Yes (integrated thermal heat-pad with control) Compitable Inverter (****) Pylontech, Deve, Senergy (Communication: CANBUS, mainly ongrid inverters) ### Epever (Communication: RS48S, mainly off-grid inverters) ### Mechanical Properties ### Battery Case Material PC-ABS Power Terminals ### Screw in Protection Level PBS Humbilty SM-85% RH (non-condensing) Altitude - 3000 m M-5x205x215 mm 475x205x215 mm 475x205x2	Storage Temperature	-20~55°C		
### BMS Protections UV, OV, OC, UT, OT, SC Screen No Communication Interfaces Bluetooth, CAN NMEA2000 Parallel Connection Yes (up to 8 batteries) Serial Connection Yes (up to 48V) Safety Relay Control Yes (over relay connector) Protective Vent Yes Internal Self Heating Pytontect, Deye, Senergy (Communication: CANBUS, mainly orgrid inverters) ###################################	Warranty	10 years		
Screen	Functional Properties			
Communication Interfaces Bluetooth, CAN CAN Communication Protocols NMEA2000 Parallel Connection Yes (up to 8 batteries) Serial Connection Yes (up to 8 batteries) Serial Connection Yes (up to 8 batteries) Stell Active Control Yes (up to 48V) Sately Relay Control Yes (over relay connector) Dry Contacts No Protective Vent Yes Internal Self Heating Yes (integrated thermal heat-pad with control) Complitable Inverter (****) Pylontech, Deye, Senergy (Communication : CANBUS, mainly orgrid inverters) Mcchain Ical Properties Epewer (Communication : RS48S, mainly off-grid inverters) Mcdhain Ical Properties PC-ABS Battery Case Material PC-ABS Power Terminals PC-ABS Protection Level IP65 Humidity \$3-85%, RH (non-condensing) Altitude <3000 m	BMS Protections	UV, OV, OC, UT, OT, SC		
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) Compitable Inverter (****) Pylontech, Deye, Senergy (Communication : CANBUS, mainly orgid inverters) Mechanical Properties Epewer (Communication : RS48S , mainly off-grid inverters) Battery Case Material PC-ABS Power Terminals M8 Screw in Protection Level IP65 Humbility S% -85% RH (non-condensing) Altitude <3000 m Dimension (WxDxH) 279x205x215 mm 475x205x215 mm 475x205x215 mm	Screen	No		
Parallel Connection Yes (up to 8 batteries) Serial Connection Yes (up to 48V) Safety Relay Control Yes (over relay connector) Protective Vent Yes Internal Self Heating Yes (integrated thermal heat-pad with control) Compitable Inverter (****) Pytontech, Deye, Senergy (Communication: CANBUS, mainly ongrid inverters) Epever (Communication: RS48S, mainly off-grid inverters) Mechanical Properties Battery Case Material PC-ABS Power Terminals Protection Level IP65 Humbilty S%-85% RH (non-condensing) Altitude - 3000 m Universion (WxDxH) 279x205x215 mm 475x205x215 mm 475x205x215 mm 475x205x215 mm	Communication Interfaces	Bluetooth, CAN		
Serial Connection Yes (up to 48V) Safety Relay Control Yes (over relay connector) Dry Contacts No Protective Went Yes internal Self Heating Yes (integrated thermal heat-pad with control) Compitable Inverter (****) Pylontech, Deye, Senergy (Communication : CANBUS, mainly orgid inverters) Mcchanical Properties Epever (Communication : RS48S, mainly off-grid inverters) Battery Case Material PC-ABS Power Terminals M8 Screw in Protection Level IP65 Humidity 5% -85% RH (non-condensing) Altitude <3000 m	CAN Communication Protocols	NMEA2000		
Safety Relay Control Yes (over relay connector)	Parallel Connection	Yes (up to 8 batteries)		
Dry Contacts No Yes	Serial Connection	Yes (up to 48V)		
Protective Vent Yes Internal Self Heating Yes (Integrated thermal heat-pad with control) Compitable Inverter (***) Pylontech, Deve, Senergy (Communication: CANBUS, mainly ongrid Inverters) Epever (Communication: RS485 , mainly off-grid Inverters) Mechanical Properties Battery Case Material PC-ABS Power Terminals Poser Terminals M8 Screw In Protection Level IP65 Humbilty \$%-85% RH (non-condensing) Altitude <3000 m Dimension (WxDxH) 279x205x215 mm 475x205x215 mm 475x205x215 mm	Safety Relay Control	Yes (over relay connector)		
reternal Self Heating Yes (integrated thermal heat-pad with control) Compitable Inverter (****) Pylontech, Deye, Senergy (Communication: CANBUS, mainly ongrid inverters) Epever (Communication: RS485, mainly off-grid inverters) Mcchanical 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	Dry Contacts	No		
Pylontech, Deye, Senergy (Communication : CANBUS, mainly ongrid inverters)	Protective Vent	Yes		
Epever (Communication : RS485 , mainly off-grid inverters) Mcchanical Properties	Internal Self Heating	Yes (integrated thermal heat-pad with control)		
Battery Case Material PC-ABS	Compitable Inverter (****)			
Power Terminals M8 Screw In Protection Level IP65 Humidity 5% - 85% RH (non-condensing) Attitude <3000 m	Mechanical Properties			
IP65	Battery Case Material	PC-ABS		
Humidity 5% - 85% RH (non-condensing) Altitude <3000 m	Power Terminals	M8 Screw In		
Altitude <3000 m Dimension (WxDxH) 279x205x215 mm 475x205x215 mm 475x205x215 mm	Protection Level	IP65		
Dimension (WxDxH) 279x205x215 mm 475x205x215 mm 475x205x215 mm	Humidity	5% - 85% RH (non-condensing)		
	Altitude	<3000 m		
Weight 13±1 kg 22±1 kg 22±1 kg	Dimension (WxDxH)	279x205x215 mm	475x205x215 mm	475x205x215 mm
	Weight	13±1 kg	22±1 kg	22±1 kg

(*) Operates for a complete cycle (full charge/discharge) under 20°C without interruptio (**)Test Conditions: 25°C, 70% SOH (***) Performance may vary in different conditi (****) Contact us for other inverter brands