DyMac GLOBAL

BATTERY ENERGY STORAGE SYSTEM



Lynx Energy Pod Range:

✓ **LEP-45-80**

Lynx ENERGY POD

Harvesting Clean Energy / Protecting Our Environment

MODEL : LEP-45-80

BATTERY ENERGY STORAGE SYSTEM



Design Standards

The Lynx Energy Pod is a secure integrated Battery Energy Storage System. It comes complete with Victron Technology, Lithium ion batteries, MPPT, cooling fan and auxiliary components. External PV power and AC generator are available as option.

The Lynx Energy Pod is mainly developed for no emission and low noise, reduce the dependence on grid, Improve power supply quality and ensure the power consumption of emergency load.

Benefits

- Integrated installation, convenient storage and transportation.
- Simple operation and easy maintenance.
- Power and capacity can be expanded, meet different user needs.
- No emission and low noise.
- High safe and reliable.

ISO9001:2015
Qutlity system certified

ISO14001
System certified

OHSAS18001
System certified

Certified

General Specification	
Model	LEP-45-80
Nominal Output Power (Continuous)	45kVA
Peak Output Power (0.5s)	75kW
Peak Output Power (5s)	54kW
Rated Voltage (Single phase)	230V
Rated Voltage (Three phase)	400V
Frequency	50Hz
Phase (s)	3 Phase
Nominal Energy Capacity	80.384kWh
Reference Ambient Temperature	25°C

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System Data	
System Pass-through Capacity	300A
Operating Temperature Range	-20~55°C
Degree of Protection	IP54
Sound Power (LWA)	82dB(A)
Normal Noise Pressure @1m (LpA)	45dB(A)
Full Level Noise Pressure @1m (LpA)	66dB(A)
Inverter	
Model	Victron Quattro 48/15000/200
Quantity	3No.
Rated Apparent Power	45kVA
Power Factor / Range	0.8
Battery	
Battery (Type)	LFP (LiFePO4)
Battery Modules Quantity	5No.
Module Capacity	16.076kWh
Battery Rated Voltage	51.2VDC
Depth of Discharge (DOD)	90%
Battery Design Life	6000 cycles @ 70% DOD
Usable Energy	72kWh
Total Batteries Weight	545kg
Instruments, Controls & Connections	
Inverter Protection Short Circuit	Yes
Inverter Protection Overload	Yes
Inverter Protection Over Temperature	Yes
Inverter Protection Low Battery	Yes
System Status Control Panel	Yes
Battery Condition	Yes
Battery Main Isolator	Yes
Remote Monitoring Device	Yes
Automatic Generator Auto-start Signal	Yes

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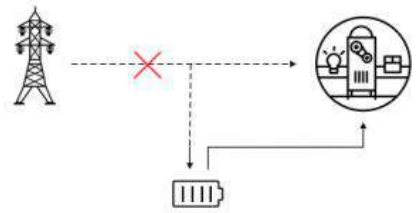
BATTERY ENERGY STORAGE SYSTEM

Input Power Connection	
125A 5P for Grid Power	1
125A 5P for Generator	1
Mc4 Connector for SEF	4
Output Power Connection	
125A 5P	1
63A 5P	1
32A 5P	1
32A 3P	2
16A 2P	2
DC48V to SEF Lifting	1
Individual RCD 1Phase sockets	Yes
Common RCD for 3Phase sockets	Yes
Overall Dimensions	
Length	1800mm
Width	1130mm
Height	2220mm
Weight	1975kg
Optional	
1xSolar Charge Controller 5.8kW 250V	MPPT
2x Solar Charge Controller 11.6KW 250V	MPPT2
Energy Management System	
Hardware Equipment	Cerbo GX
Remote Display	The Victron VRM website
4G RTU	LT220M
Solar Charge Controller (MPPT)	
Make	Victron
Certification	EN/IEC 62109-1, UL 1741, CSA C22.2

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Cooling System	
Cold Weather Kit	CWK
Cooling Type	Air Conditioner
Operation Mode	Temperature controlled
Rated Voltage	230Vac ±10%
Rated Frequency	50/60Hz

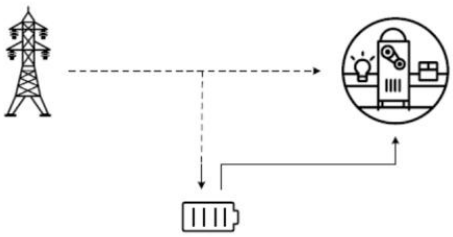
Power Feature's



Two AC Outputs

The main output has no-break functionality. The Quattro takes over the supply to the connected loads in the event of a grid failure or when shore/generator power is disconnected. This happens so fast (less than 20 milliseconds) that computers and other electronic equipment will continue to operate without disruption.

The second output is live only when AC is available on one of the inputs of the Quattro. Loads that should not discharge the battery, like a water heater for example, can be connected to this output.



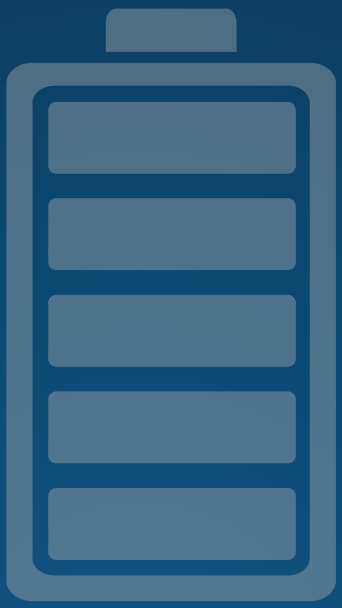
Power Control – Dealing with limited generator, shore side or grid power

The Quattro is a very powerful battery charger. It will therefore draw a lot of current from the generator or shore side supply (16A per 5kVA Quattro at 230V AC). A current limit can be set on each AC input. The Quattro will then take account of other AC loads and use whatever is spare for charging, thus preventing the generator or mains supply from being overloaded.

Power Assist – Boosting shore or generator power

This feature takes the principle of Power Control to a further dimension allowing the Quattro to supplement the capacity of the alternative source. Where peak power is so often required only for limited period, the Quattro will make sure that insufficient mains or generator power is immediately compensated for by power from the battery. When the load reduces, the spare power is used to recharge the battery.

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