



BATTERY ENERGY STORAGE SYSTEM



Harvesting Clean Energy / Protecting Our Environment

LPB 45-45-RT | 45 kVA

Prime Power Rating

36kW, 45kVA, 50Hz, Three-Phase & Single Phase



Design Standards

Lynx Power Bank is a new range of secure integrated Battery Energy storage system. This mobile and modular solution includes batteries, PCS, cooling fan, fire protection and auxiliary components, External PV power and AC generator are available for option.

Lynx Power Bank is mainly developed for zero emission and zero 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.

FEATURES

POWER AND VOLTAGE

- 45 kVA Three-Phase Prime Rated Power
- 400 V Three-Phase Main Output
- A Main Circuit Breaker for better protection
- 200 A Inverter Rating Passthrough
- 50 Hz

CHARGING CONNECTIONS

- 230 V Three-Phase Main Input Camlocks
- Solar PV input option
- CE Marked 125A/5PH Socket

POWER DISTRIBUTION

- Input - CE 125A/5PH*1
- Output - CE 32A/1PH*6; CE 63A/3PH*1
- Operation Mode (Output) -
Manual/Timer/Optically

CONTROL SYSTEM

- Touch Screen
- On/Off Switch
- Battery System Function Lights
- Emergency Stop
- Remote Monitoring

BATTERY TECHNOLOGY

- LFP Type Battery
- 46.08 kWh Battery capacity
- 4000 Cycle Life (90% DOD)

MOBILITY

- Over head liftable design
- Intergrated Forklift base frame
- Twin axle galvanised trailer (Optional)



TECHNICAL SPECIFICATION:

Micro Battery Energy Storage System

Model	LPB-45-45	LPB-30-60	LPB-50-100
Rated Power(AC Output)	45KVA/36kW	30kW	50kW
Rated Voltage/Phase	400VAC/3P	400VAC/3P	400VAC/3P
Frequency	50Hz	50Hz	50Hz
Cycle Life @ 90% D.O.D	6000	6000	6000
Energy Capacity@25° C	46.08kWh	61.44kWh	100.35kWh
Pack Capacity@25° C	5.12kWh	5.12kWh	14.336kWh
Pack Qty.	9pcs	12pcs	7pcs
PCS Brand	Victron	Sinexcel	Sinexcel/Megarevo
Cooling System	DC Fan is Standard , HVAC for Option		
Dimensions (L x W x H)	2280*983*1790mm	1300*900*2260mm	2280*1150*2260mm
Weight	1.65T	1.7T	2.6T

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.

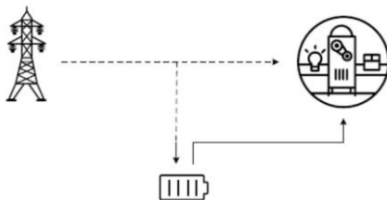
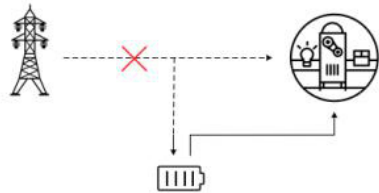
The second output is live only when AC is available on one of the inputs of the Quattro. Loads that should not discharge the battery, like a water heater for example, can be connected to this output.

PowerControl - Dealing with limited generator, shore side or grid power

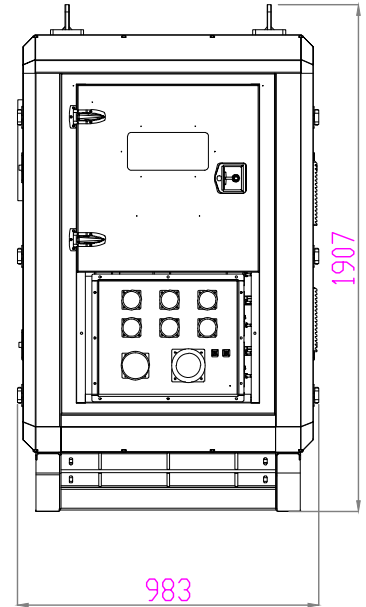
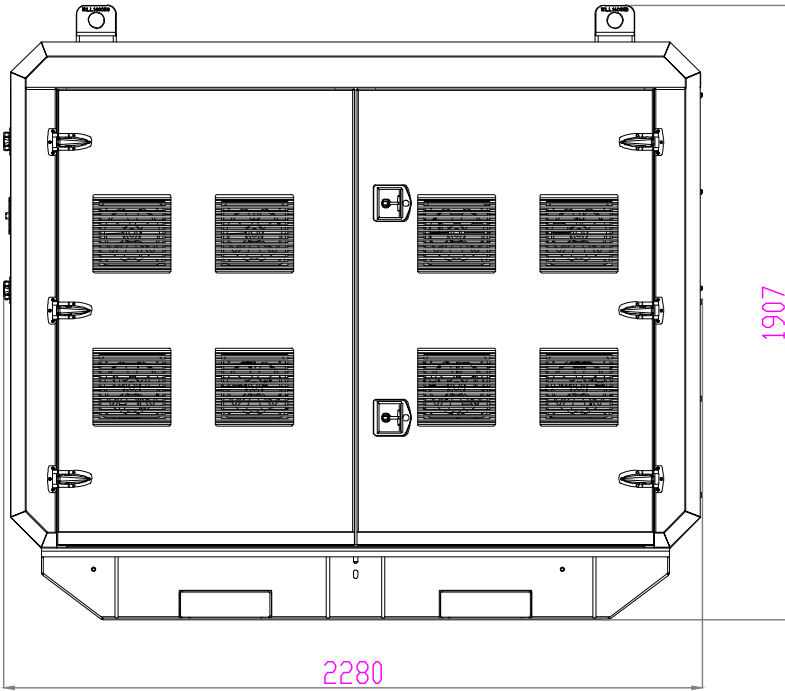
The Quattro is a very powerful battery charger. It will therefore draw a lot of current from the generator or shore side supply (16A per 5kVA Quattro at 230V AC). A current limit can be set on each AC input. The Quattro will then take account of other AC loads and use whatever is spare for charging,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

PowerAssist - Boosting shore or generator power

This feature takes the principle of PowerControl 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.



DIMENSIONS AND WEIGHTS:

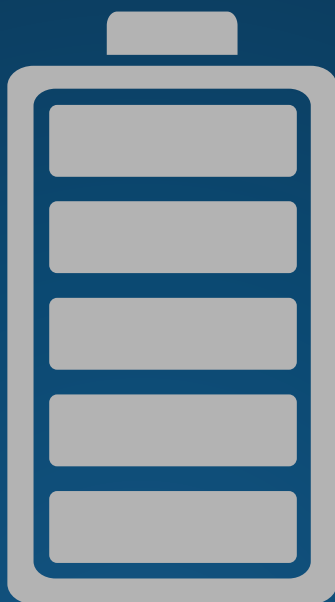


Unit Dimensions (LXWXH in mm)

LPB 45-45 = 2280* 983* 1907

Unit Weight (kg)

LPB 45-45 = 1368



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