



## Lynx Shunt VE.Can

DC Busbars with integrated battery monitor and main fuse holder

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Lynx Shunt VE.Can



Lynx Shunt VE.Can without cover



RJ45 VE.Can terminator

## **Busbar integrated battery monitoring**

The Lynx Shunt VE.Can contains a positive and negative busbar, a battery monitor and a fuse holder for the main system fuse. It is part of the Lynx Distribution system. The Lynx Distributor has a power LED.

The Lynx Shunt VE.Can can communicate via VE.Can with an GX device.

The Lynx Shunt VE.Can ships with two RJ45 VE.Can terminators, these are used when connecting to a GX device.

The Lynx Shunt VE.Can is designed to hold a CNN fuse. The fuse needs to be purchased separately. For more info see section <u>Fusing</u> in the Lynx Shunt VE.Can manual.

## The Lynx Distribution System

The Lynx Distribution System is a modular busbar system that incorporates DC connections, distribution, fusing, battery monitoring and/or Lithium battery management. For more information also see the DC Distribution Systems product page.

The Lynx Distribution System consist of the following parts:

- Lynx Power In A positive and negative busbar with 4 connections for batteries or DC equipment.
- Lynx Distributor A positive and negative busbar with 4 fused connections for batteries or DC equipment together with fuse monitoring.
- Lynx Shunt VE.Can A positive busbar with a space for a main system fuse and a negative busbar with a shunt for battery monitoring. It has VE.Can communication for monitoring and setup with a GX device.
- Lynx Smart BMS For use together with Victron Energy Smart Lithium batteries. It
  contains a positive busbar with a contactor that is driven by a battery management
  system (BMS) and a negative busbar with a shunt for battery monitoring. It has
  Bluetooth communication for monitoring and setup via the VictronConnect App
  and VE.Can communication for monitoring with a GX device and the VRM portal.









The Lynx modules: Lynx Power In, Lynx Distributor, Lynx Shunt VE.Can and Lynx Smart BMS

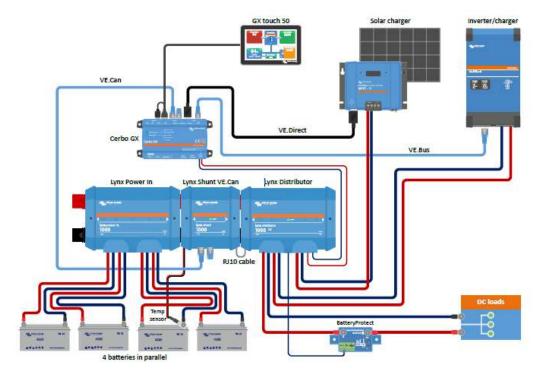


Supply voltage range Supported system voltages Reverse polarity protection Current rating Power consumption Power consumption  Found (1)  Found		
Supply voltage range Supported system voltages Reverse polarity protection No Current rating 1000Adc continuous Power consumption 6omA @ 12V 33mA @ 24V 20mA @ 48V  Potential free alarm contact 3A, 30Vdc, 250Vac  CONNECTIONS  Busbar M8 Fuse M8 VE.Can RJ45 and RJ45 terminator Power supply connection to Lynx Distributor Sitributor Temperature sensor Relay Screw terminal Relay Screw terminal Finclosure material Busbar MB  FUSICAL Busbar MB  FUSICAL Busbar MB  RJ10 (a RJ10 cable ships with each Lynx Distributor)  PHYSICAL Bricksure material ABS Enclosure dimensions (h x w x d) 190 x 180 x 80 mm Unit weight 1.4 kg Busbar material Busbar dimensions (hxw) 8 x 30 mm  ENVIRONMENTAL Operating temperature range Storage temperature range 4,0°C to +60° Storage temperature range Humidity Max. 95% (non-condensing)	Lynx Shunt VE.Can	
Supported system voltages  Reverse polarity protection  Current rating  Power consumption  6omA @ 12V 33mA @ 24V 20mA @ 48V  Potential free alarm contact  3A, 30Vdc, 250Vac  CONNECTIONS  Busbar  M8  Fuse  M8  VE.Can  RJ45 and RJ45 terminator  Power supply connection to Lynx Distributor  Temperature sensor  Relay  Screw terminal  Enclosure material  Enclosure dimensions (h x w x d)  Unit weight  Busbar material  Busbar material  Busbar material  Busbar material  CONNECTIONS  RJ10 (a RJ10 cable ships with each Lynx Distributor)  PHYSICAL  ABS  Enclosure dimensions (h x w x d)  190 x 180 x 80 mm  1.4 kg  Busbar material  Tinned copper  Busbar dimensions (hxw)  ENVIRONMENTAL  Operating temperature range  -40°C to +60°  Storage temperature range  -40°C to +60°  Humidity  Max. 95% (non-condensing)	POWER	
Reverse polarity protection Current rating 1000Adc continuous Power consumption 6 om A @ 12V 33m A @ 24V 20m A @ 48V  Potential free alarm contact 3A, 30Vdc, 250Vac  CONNECTIONS  Busbar M8 Fuse M8 VE.Can RJ45 and RJ45 terminator Power supply connection to Lynx Distributor Distributor RJ10 (a RJ10 cable ships with each Lynx Distributor) Temperature sensor Screw terminal Relay Screw terminal PHYSICAL Enclosure material ABS Enclosure dimensions (h x w x d) 190 x 180 x 80 mm Unit weight 1.4 kg Busbar material Tinned copper Busbar dimensions (hxw) 8 x 30 mm  ENVIRONMENTAL Operating temperature range -40°C to +60° Storage temperature range -40°C to +60° Humidity Max. 95% (non-condensing)	Supply voltage range	9 - 70 Vdc
Current rating 1000Adc continuous Power consumption 60mA @ 12V 33mA @ 24V 20mA @ 48V Potential free alarm contact 3A, 30Vdc, 250Vac  CONNECTIONS  Busbar M8 Fuse M8 VE.Can RJ45 and RJ45 terminator Power supply connection to Lynx Distributor Distributor RJ10 (a RJ10 cable ships with each Lynx Distributor)  Temperature sensor Screw terminal Relay Screw terminal  Enclosure material ABS Enclosure dimensions (h x w x d) 190 x 180 x 80 mm Unit weight 1.4 kg Busbar material Tinned copper Busbar dimensions (hxw) 8 x 30 mm  ENVIRONMENTAL  Operating temperature range 4-40°C to +60° Storage temperature range 4-40°C to +60° Humidity Max. 95% (non-condensing)	Supported system voltages	12, 24 or 48V
Power consumption  6omA @ 12V 33mA @ 24V 20mA @ 48V  Potential free alarm contact  3A, 30Vdc, 250Vac  CONNECTIONS  Busbar  M8  Fuse  M8  VE.Can  RJ45 and RJ45 terminator  Power supply connection to Lynx Distributor  Temperature sensor  RJ10 (a RJ10 cable ships with each Lynx Distributor)  Temperature sensor  Screw terminal  Relay  Screw terminal  PHYSICAL  Enclosure material  ABS  Enclosure dimensions (h x w x d)  Unit weight  1.4 kg  Busbar material  Busbar dimensions (hxw)  ENVIRONMENTAL  Operating temperature range  -40°C to +60°  Storage temperature range  Humidity  Max. 95% (non-condensing)	Reverse polarity protection	No
Potential free alarm contact  Potential free alarm contact  3A, 30Vdc, 250Vac  CONNECTIONS  Busbar  M8  Fuse  M8  VE.Can  RJ45 and RJ45 terminator  Power supply connection to Lynx Distributor  Temperature sensor Relay  Screw terminal  Relay  PHYSICAL  Enclosure material  Enclosure dimensions (h x w x d)  Unit weight  1.4 kg  Busbar material  Busbar dimensions (hxw)  ENVIRONMENTAL  Operating temperature range  Storey temperature range  -40°C to +60°  Storage temperature range  Humidity  Max. 95% (non-condensing)	Current rating	1000Adc continuous
Potential free alarm contact  3A, 30Vdc, 250Vac  CONNECTIONS  Busbar  M8  Fuse  M8  VE.Can  RJ45 and RJ45 terminator  Power supply connection to Lynx Distributor  Temperature sensor Relay  Screw terminal Relay  Screw terminal  PHYSICAL  Enclosure material  Enclosure dimensions (h x w x d)  Unit weight  Busbar material  Busbar material  Busbar material  Busbar material  Environmental  Environmental  Diana 2,4 kg  Busbar material  Doperating temperature range  Storage temperature range  Lyo°C to +60°  Storage temperature range  Humidity  Max. 95% (non-condensing)	Power consumption	60mA @ 12V
Potential free alarm contact  CONNECTIONS  Busbar  M8  Fuse  M8  VE.Can  RJ45 and RJ45 terminator  Power supply connection to Lynx Distributor  Temperature sensor  Relay  Screw terminal Relay  PHYSICAL  Enclosure material  Enclosure dimensions (h x w x d)  Unit weight  Unit weight  Busbar material  Busbar material  Busbar dimensions (hxw)  ENVIRONMENTAL  Operating temperature range  Sconnection to Lynx  ABS  1-40°C to +60°  Storage temperature range  Humidity  Max. 95% (non-condensing)		
Busbar M8 Fuse M8 VE.Can RJ45 and RJ45 terminator Power supply connection to Lynx Distributor Distributor RJ10 (a RJ10 cable ships with each Lynx Distributor) Temperature sensor Screw terminal Relay Screw terminal PHYSICAL Enclosure material ABS Enclosure dimensions (h x w x d) 190 x 180 x 80 mm Unit weight 1.4 kg Busbar material Tinned copper Busbar dimensions (hxw) 8 x 30 mm  ENVIRONMENTAL Operating temperature range -40°C to +60° Storage temperature range -40°C to +60° Humidity Max. 95% (non-condensing)		20mA @ 48V
Busbar M8  Fuse M8  VE.Can RJ45 and RJ45 terminator  Power supply connection to Lynx Distributor  Pistributor RJ10 (a RJ10 cable ships with each Lynx Distributor)  Temperature sensor Screw terminal  Relay Screw terminal  PHYSICAL  Enclosure material ABS  Enclosure dimensions (h x w x d) 190 x 180 x 80 mm  Unit weight 1.4 kg  Busbar material Tinned copper  Busbar dimensions (hxw) 8 x 30 mm  ENVIRONMENTAL  Operating temperature range -40°C to +60°  Storage temperature range -40°C to +60°  Humidity Max. 95% (non-condensing)	Potential free alarm contact	3A, 30Vdc, 250Vac
Fuse M8  VE.Can RJ45 and RJ45 terminator  Power supply connection to Lynx Distributor  Power supply connection to Lynx Distributor  RJ10 (a RJ10 cable ships with each Lynx Distributor)  Temperature sensor Screw terminal  Relay Screw terminal  PHYSICAL  Enclosure material ABS  Enclosure dimensions (h x w x d) 190 x 180 x 80 mm  Unit weight 1.4 kg  Busbar material Tinned copper  Busbar dimensions (hxw) 8 x 30 mm  ENVIRONMENTAL  Operating temperature range -40°C to +60°  Storage temperature range +40°C to +60°  Humidity Max. 95% (non-condensing)	CONNECTIONS	
VE.Can RJ45 and RJ45 terminator  Power supply connection to Lynx Distributor  RJ10 (a RJ10 cable ships with each Lynx Distributor)  Temperature sensor Screw terminal  Relay Screw terminal  PHYSICAL  Enclosure material ABS  Enclosure dimensions (h x w x d) 190 x 180 x 80 mm  Unit weight 1.4 kg  Busbar material Tinned copper  Busbar dimensions (hxw) 8 x 30 mm  ENVIRONMENTAL  Operating temperature range -40°C to +60°  Storage temperature range Humidity Max. 95% (non-condensing)	Busbar	M8
Power supply connection to Lynx Distributor  Temperature sensor Relay Screw terminal  PHYSICAL  Enclosure material Enclosure dimensions (h x w x d) Unit weight Busbar material Busbar dimensions (hxw)  ENVIRONMENTAL  Operating temperature range FNURONMENTAL  Operating temperature range Humidity  Max. 95% (non-condensing)	Fuse	M8
Distributor  RJ10 (a RJ10 cable ships with each Lynx Distributor)  Temperature sensor  Relay  Screw terminal  PHYSICAL  Enclosure material  Enclosure dimensions (h x w x d)  Unit weight  Busbar material  Busbar dimensions (hxw)  ENVIRONMENTAL  Operating temperature range  Storage temperature range  Humidity  RJ10 (a RJ10 cable ships with each Lynx Distributor)  Screw terminal  ABS  Enclosure dimensions (h x w x d)  190 x 180 x 80 mm  1,4 kg  Tinned copper  8 x 30 mm  ENVIRONMENTAL  Operating temperature range  -40°C to +60°  Storage temperature range  Humidity  Max. 95% (non-condensing)	VE.Can	RJ45 and RJ45 terminator
Relay  Screw terminal  PHYSICAL  Enclosure material  Enclosure dimensions (h x w x d)  Unit weight  Busbar material  Busbar dimensions (hxw)  ENVIRONMENTAL  Operating temperature range  Storage temperature range  Humidity  Screw terminal  ABS  190 x 180 x 80 mm  1,4 kg  Tinned copper  8 x 30 mm  ENVIRONMENTAL  Operating temperature range  -40°C to +60°  Humidity  Max. 95% (non-condensing)	Power supply connection to Lynx Distributor	RJ10 (a RJ10 cable ships with each Lynx Distributor)
PHYSICAL  Enclosure material  Enclosure dimensions (h x w x d)  Unit weight  Busbar material  Busbar dimensions (hxw)  ENVIRONMENTAL  Operating temperature range  Storage temperature range  Humidity  PHYSICAL  ABS  190 x 180 x 80 mm  1.4 kg  Tinned copper  8 x 30 mm  ENVIRONMENTAL  -40°C to +60°  Storage temperature range  -40°C to +60°  Humidity  Max. 95% (non-condensing)	Temperature sensor	Screw terminal
Enclosure material ABS  Enclosure dimensions (h x w x d) 190 x 180 x 80 mm  Unit weight 1.4 kg  Busbar material Tinned copper  Busbar dimensions (hxw) 8 x 30 mm  ENVIRONMENTAL  Operating temperature range -40°C to +60°  Storage temperature range -40°C to +60°  Humidity Max. 95% (non-condensing)	Relay	Screw terminal
Enclosure dimensions (h x w x d)  190 x 180 x 80 mm  Unit weight  1.4 kg  Busbar material  Tinned copper  Busbar dimensions (hxw)  8 x 30 mm  ENVIRONMENTAL  Operating temperature range  -40°C to +60°  Storage temperature range  Humidity  Max. 95% (non-condensing)	PHYSICAL	
Unit weight  Busbar material  Busbar dimensions (hxw)  ENVIRONMENTAL  Operating temperature range Storage temperature range  Humidity  1.4 kg  Tinned copper  8 x 30 mm  ENVIRONMENTAL  -40°C to +60°  -40°C to +60°  Max. 95% (non-condensing)	Enclosure material	ABS
Busbar material Tinned copper Busbar dimensions (hxw) 8 x 30 mm  ENVIRONMENTAL  Operating temperature range -40°C to +60° Storage temperature range -40°C to +60° Humidity Max. 95% (non-condensing)	Enclosure dimensions (h x w x d)	190 x 180 x 80 mm
Busbar dimensions (hxw)  8 x 30 mm  ENVIRONMENTAL  Operating temperature range  -40°C to +60°  Storage temperature range  -40°C to +60°  Humidity  Max. 95% (non-condensing)	Unit weight	1.4 kg
ENVIRONMENTAL  Operating temperature range  -40°C to +60°  Storage temperature range  -40°C to +60°  Humidity  Max. 95% (non-condensing)	Busbar material	Tinned copper
Operating temperature range -40°C to +60° Storage temperature range -40°C to +60° Humidity Max. 95% (non-condensing)	Busbar dimensions (hxw)	8 x 30 mm
Storage temperature range -40°C to +60° Humidity Max. 95% (non-condensing)	ENVIRONMENTAL	
Humidity Max. 95% (non-condensing)	Operating temperature range	-40°C to +60°
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Protection class IP22	Humidity	Max. 95% (non-condensing)
	Protection class	IP22

## System example – Lynx Shunt VE.Can, Lynx Power In, Lynx Distributor and lead acid batteries

This system contains the following components:

- Lynx Power In with 4 paralleled 12V lead acid batteries.
- Identical cable lengths for each battery.
- Lynx Shunt VE.Can with main system fuse and battery monitor.
- Lynx Distributor with fused connections for inverter/charger(s), loads and chargers. Note that additional modules can be added if more connections are needed.
- Cerbo GX (or other GX device) to read out the battery monitor data.



System with Lynx Shunt VE.Can, lead acid batteries, a Lynx Shunt VE.Can and a Lynx Distributor

