

Lithium-Ion HE Battery and Lynx Ion BMS

24V/100Ah and 24V/200Ah

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24V/100Ah HE battery



24V/200Ah HE battery



Lynx-ion BMS 1000A

Ultra-high energy density

185Wh/kg thanks to Lithium Nickel Manganese Cobalt Oxide (NMC) technology

Fan cooled

For high charge and discharge currents (up to 2C for short periods)

Parallel and series connection

Up to 64 batteries can be parallel connected.

For 48V systems two batteries can be connected in series, and up to 32 strings of two batteries can be parallel connected.

Galvanically isolated CAN-Bus communication

Protocol: VE.Can/NMEA2000

Lynx-ion BMS: 400A or 1000A

The Lynx-ion BMS reduces wiring and installation time to a minimum: it combines four fused battery connections, four fused DC load connections, a safety contactor and a current shunt with a BMS in one compact enclosure.

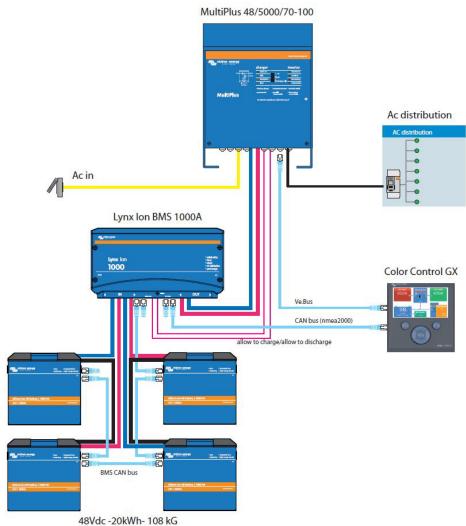
Monitoring: The Color Control GX or Venus GX

Monitors the complete system.

Is the gateway for remote monitoring on the VRM online portal.

Adds an amazing amount of useful functionality to system (such as a very sophisticated generator start-stop program

See the Color Control GX and Venus GX datasheet for more information.



4 x Lithium HE battery 24V/200Ah 5kWh



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Lithium HE battery	24V / 100Ah	24V / 200Ah
echnology	Lithium-Ion NMC	Lithium-lon NMC
Cell configuration	7S32P	7S64P
Nominal voltage	25,2 V	25,2 V
Nominal capacity	100 Ah	200 Ah
Nominal energy	2,5 kWh	5,0 kWh
Cycle Life @80% DoD (0,3C)	2000	2000
Energy/weight ratio (incl. BMS and enclosure)	159 Wh/kg	175 Wh/kg
Weight (incl. BMS and enclosure)	15,7 kg	28,6 kg
Discharge		
Discharge cut-off voltage	21 V	21 V
Recommended discharge current	30 A (0.3 C)	60 A (0.3 C)
Maximum discharge current (10 minutes)	150 A (1.5 C)	300 A (1.5 C)
uses	150 A, fuse inside	300 A, fuse inside
Charge		
Absorption voltage (1 hour)	28,4 V	28,4 V
Float voltage	27,5 V	27,5 V
Maximum charge current	100 A (1 C)	200 A (1 C)
Recommended charge current	30 A (0.3 C)	60 A (0.3 C)
Configuration		2
Series configuration	Yes, up to 2	
Parallel configuration Temperature	Yes, up to 96	
Deperating temp. charge	0.45	°C
Operating temp. charge Operating temp. discharge	0~45°C -20~55°C	
Storage temp.	-20~55°C -20~45°C	
Mechanical	-20~4	
Power connections	M8 stud, Max. 15 Nm	M8 stud, Max. 15 Nm
Protection class	IP20	IP20
Cooling	Air, active (1x fan inside)	Air, active (2x fan inside)
Dimensions (I x w x h)	362 x 193 x 214 mm	362 x 193 x 355 mm
Safety	302 X 133 X 214 Hilli	302 x 133 x 333 mm
Battery Management System (BMS)	Integrated s	lave BMS
Balancing	Passive	
Compatible BMS master controller	Lynx Ion BMS	
Communication with Lynx Ion BMS	CAN bus	
Standards		
EMC: Emission	EN-IEC 61000-6-3	
EMC: Immunity	EN-IEC 61000-6-1	
Low voltage directive	EN 603	35-1
ynx Ion BMS intended for both 100 Ah & 200Ah batteries	400A	1000A
Maximum number batteries in series	2 (= 48	VDC)
Maximum number batteries in parallel	96 (48 V: 48 strings of two batteries	
Supply voltage range	18 to 58 VDC	
Power consumption, standby mode	73 mW @ 26,2V and 138 mW @ 52,4V	
Power consumption, active mode	8,7 \	
Main safety contactor	400A	1000A
Communication port	VE.CAN (NMEA2000, RJ45 conn	ection, galvanically isolated)
0		
Auxiliary output	13,5 V / 1 A, short circuit protected	
Allow-to-charge (switched voltage)	13,5 V / 1 A, short circuit protected	
Allow-to-discharge (switched voltage)	13,5 V / 1 A, short circuit protected	
Allow-to-charge (relay output)	1 A @ 60 VDC, potential free	
Allow-to-discharge (relay output)	1 A @ 60 VDC, potential free	
Programmable contact (relay output)	1 A @ 60 VDC, potential free 13.5 V / 140 mA	
External status signal	13,5 V / 1	40 IIIA
Enclosure Material	ABS	
Weight	4,6 kg	5,7 kg
Dimensions (lxwxh)	4,6 кд 225 x 426 х	
Environmental	223 X 426 X	117 11111
Operating temperature range	-20 °C to	50 °C
Humidity	Max. 95% (non-condensing)	
•	IP2	=
Protection class		
tandards	EN-IEC 61	000-6-3
Protection class Standards EMC: Emission EMC: Immunity	EN-IEC 610 EN-IEC 610	

