

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.

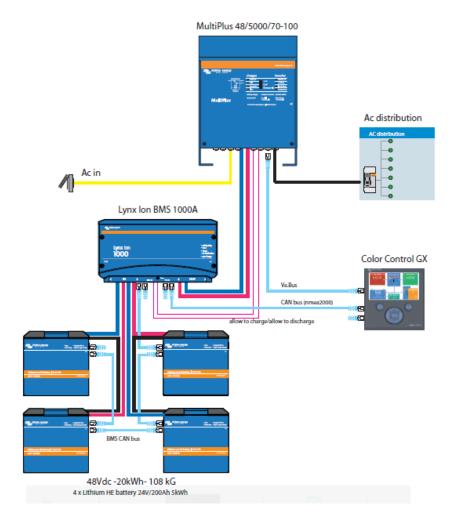
Monitoring: The Color Control GX or Venus GX

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.





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Lithium HE battery	24V / 100Ah	24V / 200Ah	
Technology	Lithium-Ion NMC	Lithium-Ion 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	13,7 kg	20,0 kg	
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)	
Fuses	150 A, fuse inside	300 A, fuse inside	
Charge			
Max. charge voltage	29,4 V	29,4 V	
Recommended charge voltage	28 V	28 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			
Series configuration	Yes, up to 2		
Parallel configuration	Yes, up to 96		
Temperature			
Operating temp. charge	0~45°C		
Operating temp. discharge	-20~55°C		
Storage temp.	-20~45℃		
Mechanical			
Power connections 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			
Battery Management System (BMS)	Integrated slave 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 60335-1	
Lynx Ion BMS	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 W	
Main safety contactor	400A	1000A	
Communication port	VE.CAN (NMEA2000, RJ	45 connection, galvanically isolated)	
IO Auxiliary output	13 5 V / 1 A	short circuit protected	
Allow-to-charge (switched voltage)	13,5 V / 1 A, short circuit protected 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		
External status signal	13,5 V / 140 mA		
Enclosure			
Material		ABS	
Weight	4,6 kg	5,7 kg	
Dimensions (lxwxh)	225	x 426 x 117 mm	
Environmental			
Operating temperature range	-20 °C to 50 °C		
Humidity	Max. 95% (non-condensing)		
Protection class		IP22	
Standards			
		EN-IEC 61000-6-3	
EMC: Emission			
		I-IEC 61000-6-3 I-IEC 61000-6-1 EN 60335-1	

