

Lithium Power Plus

Modular Battery Rack System

Only the best is good enough for our customers. Safety, durability, longevity, and maximum performance - that's what you need and what we deliver. Our LiFePo4 (or LFP) cells were recently developed by our renowned battery cell supplier from the Netherlands, who has been the international market leader in this segment for 15 years. A perfect combination of a top-quality cell supplier and an excellent system integrator.



Enjoy Green Energy

whisperpower.com



Features:

- High Charge & Discharge Performance
- High Efficiency
- Total System Integration
- No Active Maintenance
- Plug and Play installation
- 5 years system warranty

LITHIUM POWER PLUS MODULAR BATTERY RACK SYSTEM

- Light weight, modular rack design
- For horizontal or vertical mounting
- Pre-installed busbars and cabling
- Ready-to-use, + and – ready to connect
- Configurations from 12 – 800 VDC, up to 840 Ah
- Advanced BMS integration with accurate battery monitoring
- Real time and historical cloud-based surveillance (WhisperCare) (optional)
- DNV type approval (optional)
- Safe LiFePO4 chemistry, of the highest density

Added Value Services from WhisperPower

- Battery System Design
- Total Power System Design
- Full integration of (fast) chargers, DC – AC inverters, solar power and back-up generators, all from one brand
- Your perfect one stop shop, extended 5 years warranty optional
- Service & support at location on a world wide base



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Total Solution | one-stop-shop



Back-up Generator



(Temporary) Grid



Super Chargers



Solar Power



Wind Power



LITHIUM POWER PLUS MODULAR
BATTERY RACK SYSTEM



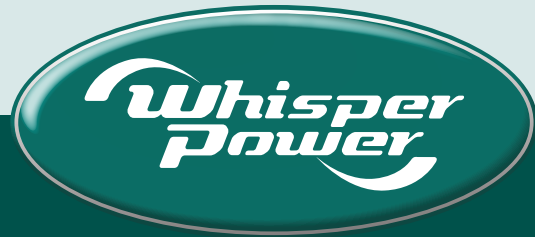
Full system control with WhisperCare (wherever you are)



Super Inverter 1 or 3-phase

Applications

- Durable DC storage solution
- Generator emission reduction
- Peakshaving for power systems
- Electrical power for e-mobility
- Electrical power for E-propulsion



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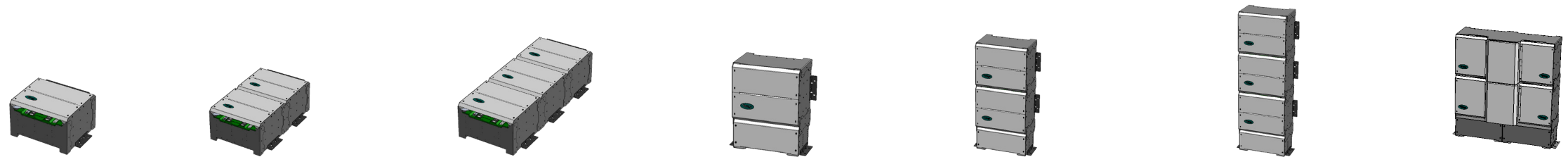
Lithium Power Plus - 24 VDC

Modular Battery Overview



	LITHIUM POWER PLUS 24 V 5.5 kWh	LITHIUM POWER PLUS 24 V 11.1 kWh	LITHIUM POWER PLUS 24V 16.6 kWh	LITHIUM POWER PLUS 24 V 5.5 kWh	LITHIUM POWER PLUS 24 V 11.1 kWh	LITHIUM POWER PLUS 24V 16.6 kWh
Art. Nr.	40290223 - Horizontal	40290225 - Horizontal	40290226 - Horizontal	40290203 - Tower/Vertical	40290205 - Tower/Vertical	40290206 - Tower/Vertical
Technology						
Chemistry	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Module configuration (12 V module)	2s2p	2s4p	2s6p	2s2p	2s4p	2s6p
Number of modules	4	8	12	4	8	12
Nominal voltage	24 V	24 V	24 V	24 V	24 V	24 V
Open circuit voltage	26,4 V	26,4 V	26,4 V	26,4 V	26,4 V	26,4 V
Nominal capacity	210 Ah	420 Ah	630 Ah	210 Ah	420 Ah	630 Ah
Nominal energy	5,5 kWh	11,1 kWh	16,6 kWh	5,5 kWh	11,1 kWh	16,6 kWh
Cycle Life DOD 80%	>3500 cycles (at 1C charge/ discharge,80% DoD)			>3500 cycles (at 1C charge/ discharge,80% DoD)		
Self discharge	<3% per month	<3% per month	<3% per month	<3% per month	<3% per month	<3% per month
Weight modules (excl. aluminum cabinet)	40 kg / 88.2 lbs	80 kg / 176.4 lbs	120 kg / 264.6 lbs	40 kg / 88.2 lbs	80 kg / 176.4 lbs	120 kg / 264.6 lbs
Discharge						
Discharge cut-off voltage	21,6 V	21,6 V	21,6 V	21,6 V	21,6 V	21,6 V
Recommended discharge current	105 A (0.5C)	210 A (0.5C)	315 A (0.5C)	105 A (0.5C)	210 A (0.5C)	315 A (0.5C)
Maximum discharge current	210 A (1.0C)	420 A (1.0C)	630 A (1.0C)	210 A (1.0C)	420 A (1.0C)	630 A (1.0C)
Discharge pulse current	420 A (2,0C)	840 A (2,0C)	1260A (2C, 10sec, SOC >60%)	420 A (2,0C)	840 A (2,0C)	1260A (2C, 10sec, SOC >60%)
Fuse protection	400 A T-class	2*400A T-class	3*400 A T-class	400 A T-class	2*400A T-class	3*400 A T-class
Charge						
Charge method	CCCV	CCCV	CCCV	CCCV	CCCV	CCCV
Maximum charge voltage	29,8 V	29,8 V	29,8 V	29,8 V	29,8 V	29,8 V
Recommended charge voltage	28,6 V	28,6 V	28,6 V	28,6 V	28,6 V	28,6 V
Recommended charge current	105 A (0.5C)	210 A (0.5C)	315 A (0.5C)	105 A (0.5C)	210 A (0.5C)	315 A (0.5C)
Continuous charge current	210 A (1.0C)	420 A (1.0C)	630 A (1.0C)	210 A (1.0C)	420 A (1.0C)	630 A (1.0C)
Configuration						
Series configuration	Yes, up to 4 max	Yes, up to 4 max	On request	Yes, up to 4 max	Yes, up to 4 max	On request
Parallel configuration	Yes, up to 2 max	Yes, up to 2 max	On request	Yes, up to 2 max	Yes, up to 2 max	On request
Redundant mode	Yes, using double BIM	Yes, using double BIM	Yes, using double BIM	Yes, using double BIM	Yes, using double BIM	Yes, using double BIM
Environmental						
Operating temperature charge	0°C to 55°C / 32°F to 131°F	0°C to 55°C / 32°F to 131°F	0°C to 55°C / 32°F to 131°F	0°C to 55°C / 32°F to 131°F	0°C to 55°C / 32°F to 131°F	0°C to 55°C / 32°F to 131°F
Operating temperature discharge	-20°C to 55°C / -4°F to 131°F	-20°C to 55°C / -4°F to 131°F	-20°C to 55°C / -4°F to 131°F	-20°C to 55°C / -4°F to 131°F	-20°C to 55°C / -4°F to 131°F	-20°C to 55°C / -4°F to 131°F
Storage temperature	-20°C to 45°C / -4°F to 113°F	-20°C to 45°C / -4°F to 113°F	-20°C to 45°C / -4°F to 113°F	-20°C to 45°C / -4°F to 113°F	-20°C to 45°C / -4°F to 113°F	-20°C to 45°C / -4°F to 113°F
Humidity (Non-condensing)	<95%	<95%	<95%	<95%	<95%	<95%
Mechanical						
Power connections	M10 stud , max 20NM	M10 stud , max 20NM	2*M10 stud , max 20NM	M10 stud , max 20NM	M10 stud , max 20NM	2*M10 stud , max 20NM
Cable connections	Option: Top or Bottom	Option: Top or Bottom	Option: Top or Bottom	Option: Top or Bottom	Option: Top or Bottom	Option: Top or Bottom
IP-Protection class	IP 66 cell IP20 connection	IP 66 cell IP20 connection	IP 66 cell IP20 connection	IP 66 cell IP20 connection	IP 66 cell IP20 connection	IP 66 cell IP20 connection
Cooling	Natural air convection	Natural air convection	Natural air convection	Natural air convection	Natural air convection	Natural air convection
Module material	PC-ABS UL94-V0	PC-ABS UL94-V0	PC-ABS UL94-V0	PC-ABS UL94-V0	PC-ABS UL94-V0	PC-ABS UL94-V0
Battery case material	Aluminum Powdercoat	Aluminum Powdercoat	Aluminum Powdercoat	Aluminum Powdercoat	Aluminum Powdercoat	Aluminum Powdercoat
Dimensions (l x h x w) mm	480 x 280 x 465 (540) mm	870 x 280 x 465 (540) mm	1260 x 280 x 465 (540) mm	480 x 280 x 465 (540) mm	870 x 280 x 465 (540) mm	1260 x 280 x 465 (540) mm
Dimensions (l x h x w) inches	18,9 x 11 x 18,3 (21,3") inches	34,3 x 11 x 18,3 (21,3") inches	49,6 x 11 x 18,3 (21,3") inches	18,9 x 11 x 18,3 (21,3") inches	34,3 x 11 x 18,3 (21,3") inches	49,6 x 11 x 18,3 (21,3") inches
Total weight module plus cabinet	±55-60 kg / 121-132 lbs	±100-110kg / 220-243 lbs	±150-160 kg / 331-353 lbs	±55-60 kg / 121-132 lbs	±100-110kg / 220-243 lbs	±150-160 kg / 331-353 lbs
Safety						
Battery Management System (BMS)	External WP-BIM module	External WP-BIM module	External WP-BIM module	External WP-BIM module	External WP-BIM module	External WP-BIM module
Balancing	Passive method	Passive method	Passive method	Passive method	Passive method	Passive method
Communication CAN-Bus	Whisperconnect/NMEA2000	Whisperconnect/NMEA2000	Whisperconnect/NMEA2000	Whisperconnect/NMEA2000	Whisperconnect/NMEA2000	Whisperconnect/NMEA2000
EMC: Emission	EN-IEC 61000-6-3:2007/A1:2011/C11:2012			EN-IEC 61000-6-3:2007/A1:2011/C11:2012		
EMC: Immunity	EN-IEC 61000-6-1:2007	EN-IEC 61000-6-1:2007	EN-IEC 61000-6-1:2007	EN-IEC 61000-6-1:2007	EN-IEC 61000-6-1:2007	EN-IEC 61000-6-1:2007
Low voltage directive	EN 60335-1:2012/AC:2014	EN 60335-1:2012/AC:2014	EN 60335-1:2012/AC:2014	EN 60335-1:2012/AC:2014	EN 60335-1:2012/AC:2014	EN 60335-1:2012/AC:2014
Certifications	CE, FCC, UN 38.3, UL 1642 (Cells), UN ECE R10.06, EN/IEC 62620 (ESTRIN)			CE, FCC, UN 38.3, UL 1642 (Cells), UN ECE		
Shipping classification	UN 3480			UN 3480		

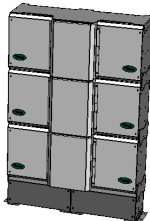
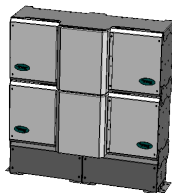
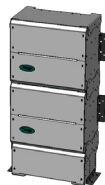
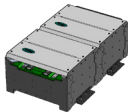
Modular Battery Overview



	LITHIUM POWER PLUS 48 V 5,5 kWh	LITHIUM POWER PLUS 48 V 11.1 kWh	LITHIUM POWER PLUS 48 V 16,6 kWh	LITHIUM POWER PLUS 48 V 5,5 kWh	LITHIUM POWER PLUS 48 V 11.1 kWh	LITHIUM POWER PLUS 48 V 16,6 kWh	LITHIUM POWER PLUS 48 V 22,2 kWh
Art. Nr.	40290231 - Horizontal	40290215 - Horizontal	40290236 - Horizontal	40290211 - Tower/Vertical	40290215 - Tower/Vertical	40290216 - Tower/Vertical	40290218 - Double Tower/Vertical
Technology							
Chemestry	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Module configuration (12 V module)	4s1p	4s2p	4s3p	4s1p	4s2p	4s3p	4s4p
Number of modules	4	8	12	4	8	12	16
Nominal voltage	48 V	48 V	48 V	48 V	48 V	48 V	48 V
Open circuit voltage	52,8 V	52,8 V	52,8 V	52,8 V	52,8 V	52,8 V	52,8 V
Nominal capacity	105 Ah	210 Ah	315 Ah	105 Ah	210 Ah	315 Ah	420 Ah
Nominal energy	5,5 kWh	11,1 kWh	22,2 kWh	5,5 kWh	11,1 kWh	22,2 kWh	22,2 kWh
Cycle Life DOD 80%	>3500 cycles (at 1C charge/ discharge,80% DoD)			>3500 cycles (at 1C charge/ discharge,80% DoD)			
Self discharge	<3% per month	<3% per month	<3% per month	<3% per month	<3% per month	<3% per month	<3% per month
Weight modules (excl. aluminum cabinet)	40 kg / 88.2 lbs	80 kg / 176.4 lbs	120 kg / 264.6 lbs	40 kg / 88.2 lbs	80 kg / 176.4 lbs	120 kg / 264.6 lbs	160 kg / 352.7 lbs
Discharge							
Discharge cut-off voltage	43,2 V	43,2 V	43,2 V	43,2 V	43,2 V	43,2 V	43,2 V
Recommended discharge current	52,5 A (0.5C)	105 A (0.5C)	157A (0.5C)	52,5 A (0.5C)	105 A (0.5C)	157A (0.5C)	210 A (0.5C)
Maximum discharge current	105 A (1.0C)	210 A (1.0C)	315 A (1.0C)	105 A (1.0C)	210 A (1.0C)	315 A (1.0C)	420 A (1.0C)
Discharge pulse current	210A (2C, 10sec, SOC >60%)	420A (2C, 10sec, SOC >60%)	630A (2C, 10sec, SOC >60%)	210A (2C, 10sec, SOC >60%)	420A (2C, 10sec, SOC >60%)	630A (2C, 10sec, SOC >60%)	840 A (2,0C)
Fuse protection	225A T-class	2*225A T-class	3*225A T-class	225A T-class	2*225A T-class	3*225A T-class	600 A T-class
Charge							
Charge method	CCCV	CCCV	CCCV	CCCV	CCCV	CCCV	CCCV
Maximum charge voltage	59,6 V	59,6 V	59,6 V	59,6 V	59,6 V	59,6 V	59,6 V
Recommended charge voltage	57,2 V	57,2 V	57,2 V	57,2 V	57,2 V	57,2 V	57,2 V
Recommended charge current	52,5 A (0.5C)	105 A (0.5C)	157.5 A (0.5C)	52,5 A (0.5C)	105 A (0.5C)	157.5 A (0.5C)	210 A (0.5C)
Continuous charge current	105 A (1.0C)	210 A (1.0C)	315 A (1.0C)	105 A (1.0C)	210 A (1.0C)	315 A (1.0C)	420 A (1.0C)
Configuration							
Series configuration	No	No	No	No	No	No	No
Parallel configuration	Yes, up to 4 max	Yes, up to 2 max	No	Yes, up to 4 max	Yes, up to 2 max	No	No
Redundant mode	Yes, using double BIM	Yes, using double BIM	Yes, using double BIM	Yes, using double BIM	Yes, using double BIM	Yes, using double BIM	Yes, using double BIM
Environmental							
Operating temperature charge	0°C to 55°C / 32°F to 131°F	0°C to 55°C / 32°F to 131°F	0°C to 55°C / 32°F to 131°F	0°C to 55°C / 32°F to 131°F	0°C to 55°C / 32°F to 131°F	0°C to 55°C / 32°F to 131°F	0°C to 55°C / 32°F to 131°F
Operating temperature discharge	-20°C to 55°C / -4°F to 131°F	-20°C to 55°C / -4°F to 131°F	-20°C to 55°C / -4°F to 131°F	-20°C to 55°C / -4°F to 131°F	-20°C to 55°C / -4°F to 131°F	-20°C to 55°C / -4°F to 131°F	-20°C to 55°C / -4°F to 131°F
Storage temperature	-20°C to 45°C / -4°F to 113°F	-20°C to 45°C / -4°F to 113°F	-20°C to 45°C / -4°F to 113°F	-20°C to 45°C / -4°F to 113°F	-20°C to 45°C / -4°F to 113°F	-20°C to 45°C / -4°F to 113°F	-20°C to 45°C / -4°F to 113°F
Humidity (Non-condensing)	<95%	<95%	<95%	<95%	<95%	<95%	<95%
Mechanical							
Power connections	M10 stud , max 20NM	M10 stud , max 20NM	M10 stud , max 20NM	M10 stud , max 20NM	M10 stud , max 20NM	M10 stud , max 20NM	M10 stud , max 20NM
Cable connections	Option: Top or Bottom	Option: Top or Bottom	Option: Top or Bottom	Option: Top or Bottom	Option: Top or Bottom	Option: Top or Bottom	Option: Top or Bottom
IP-Protection class	IP 66 cell IP20 connection	IP 66 cell IP20 connection	IP 66 cell IP20 connection	IP 66 cell IP20 connection	IP 66 cell IP20 connection	IP 66 cell IP20 connection	IP 66 cell IP20 connection
Cooling	Natural air convection	Natural air convection	Natural air convection	Natural air convection	Natural air convection	Natural air convection	Natural air convection
Module material	PC-ABS UL94-V0	PC-ABS UL94-V0	PC-ABS UL94-V0	PC-ABS UL94-V0	PC-ABS UL94-V0	PC-ABS UL94-V0	PC-ABS UL94-V0
Battery case material	Aluminum Powdercoat	Aluminum Powdercoat	Aluminum Powdercoat	Aluminum Powdercoat	Aluminum Powdercoat	Aluminum Powdercoat	Aluminum Powdercoat
Dimensions (l x h x w)	480 x 280 x 465 (540) mm	870 x 280 x 465 (540) mm	1260 x 280 x 465 (540) mm	480 x 280 x 465 (540) mm	870 x 280 x 465 (540) mm	1260 x 280 x 465 (540) mm	990 x 340 x 920 (995) mm
Dimensions (l x h x w) inches	18,9 x 11 x 18,3 (21,3")	34,3 x 11 x 18,3 (21,3") inches	49,6 x 11 x 18,3 (21,3") inches	18,9 x 11 x 18,3 (21,3") inches	34,3 x 11 x 18,3 (21,3") inches	49,6 x 11 x 18,3 (21,3") inches	39 x 13,4 x 36,2 (39,2") inches
Total weight module plus cabinet	±55-60 kg / 121 - 132 lbs	±100-110kg / 220 - 243 lbs	±150-160 kg / 331 - 353 lbs	±55-60 kg / 121 - 132 lbs	±100-110kg / 220 - 243 lbs	±150-160 kg / 331 - 353 lbs	±200 kg-210 kg / 441 - 463 lbs
Safety							
Battery Management System (BMS)	External WP-BIM module	External WP-BIM module	External WP-BIM module	External WP-BIM module	External WP-BIM module	External WP-BIM module	External WP-BIM module
Balancing	Passive method	Passive method	Passive method	Passive method	Passive method	Passive method	Passive method
Communication CAN-Bus	Whisperconnect/NMEA2000	Whisperconnect/NMEA2000	Whisperconnect/NMEA2000	Whisperconnect/NMEA2000	Whisperconnect/NMEA2000	Whisperconnect/NMEA2000	Whisperconnect/NMEA2000
EMC Emission	EN-IEC 61000-6-3:2007/A1:2011/C11:2012			EN-IEC 61000-6-3:2007/A1:2011/C11:2012			
EMC Immunity	EN-IEC 61000-6-1:2007	EN-IEC 61000-6-1:2007	EN-IEC 61000-6-1:2007	EN-IEC 61000-6-1:2007	EN-IEC 61000-6-1:2007	EN-IEC 61000-6-1:2007	EN-IEC 61000-6-1:2007
Low voltage directive	EN 60335-1:2012/AC:2014	EN 60335-1:2012/AC:2014	EN 60335-1:2012/AC:2014	EN 60335-1:2012/AC:2014	EN 60335-1:2012/AC:2014	EN 60335-1:2012/AC:2014	EN 60335-1:2012/AC:2014
Certifications	CE, FCC, UN 38.3, UL 1642 (Cells), UN ECE R10.06, EN/IEC 62620 (ESTRIN)			CE, FCC, UN 38.3, UL 1642 (Cells), UN ECE R10.06, EN/IEC 62620 (ESTRIN)			
Shipping classification	UN 3480	UN 3480	UN 3480	UN 3480	UN 3480	UN 3480	UN 3480

Lithium Power Plus - 96 VDC

Modular Battery Overview



	LITHIUM POWER PLUS 96 V 11.1 kWh	LITHIUM POWER PLUS 96 V 22.2 kWh	LITHIUM POWER PLUS 96 V 33,3 kWh	LITHIUM POWER PLUS 96 V 33,3 kWh
Art. Nr.	40290243 - Horizontal	40290244 - Tower/Vertical	40290246 - Double Tower/Vertical	40290247 - Double Tower/Vertical
Technology				
Chemestry	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Module configuration (12 V module)	8s1p	8s1p	8s2p	8s3p
Number of modules	8	8	16	24
Nominal voltage	96 V	96 V	96 V	96 V
Open circuit voltage	105,6 V	105,6 V	105,6 V	105,6 V
Nominal capacity	105 Ah	105 Ah	210 Ah	315 Ah
Nominal energy	11,1 kWh	11,1 kWh	22,2 kWh	33,3 kWh
Cycle Life DOD 80%	>3500 cycles (at 1C charge/ discharge, 80% DoD)	>3500 cycles (at 1C charge/ discharge, 80% DoD)	>3500 cycles (at 1C charge/ discharge, 80% DoD)	>3500 cycles (at 1C charge/ discharge, 80% DoD)
Self discharge	<3% per month	<3% per month	<3% per month	<3% per month
Weight modules (excl. aluminum cabinet)	80 kg / 176.4 lbs	80 kg / 176.4 lbs	160 kg / 352.7 lbs	240 kg / 529.1 lbs
Discharge				
Discharge cut-off voltage	86,4 V	86,4 V	86,4 V	86,4 V
Recommended discharge current	52,5 A (0.5C)	52,5 A (0.5C)	105 A (0.5C)	157,5 A (0.5C)
Maximum discharge current	105 A (1.0C)	105 A (1.0C)	210 A (1.0C)	315 A (1.0C)
Discharge pulse current	210A (2C, 10sec, SOC >60%)	210A (2C, 10sec, SOC >60%)	420A (2C, 10sec, SOC >60%)	630A (2C, 10sec, SOC >60%)
Fuse protection	225A T-class	225A T-class	2*225A T-class	3*225A T-class
Charge				
Charge method	CCCV	CCCV	CCCV	CCCV
Maximum charge voltage	119,2 V	119,2 V	119,2 V	119,2 V
Recommended charge voltage	114,4 V	114,4 V	114,4 V	114,4 V
Recommended charge current	52,5 A (0.5C)	52,5 A (0.5C)	105 A (0.5C)	157,5 A (0.5C)
Continuous charge current	105 A (1.0C)	105 A (1.0C)	210 A (1.0C)	315 A (1.0C)
Configuration				
Series configuration	No	No	No	No
Parallel configuration	Yes, up to 2 max	Yes, up to 2 max	No	No
Redundant mode	Yes, using double BIM	Yes, using double BIM	Yes, using double BIM	Yes, using double BIM
Environmental				
Operating temperature charge	0°C to 55°C / 32°F to 131°F	0°C to 55°C / 32°F to 131°F	0°C to 55°C / 32°F to 131°F	0°C to 55°C / 32°F to 131°F
Operating temperature discharge	-20°C to 55°C / -4°F to 131°F	-20°C to 55°C / -4°F to 131°F	-20°C to 55°C / -4°F to 131°F	-20°C to 55°C / -4°F to 131°F
Storage temperature	-20°C to 45°C / -4°F to 113°F	-20°C to 45°C / -4°F to 113°F	-20°C to 45°C / -4°F to 113°F	-20°C to 45°C / -4°F to 113°F
Humidity (Non-condensing)	<95%	<95%	<95%	<95%
Mechanical				
Power connections	M10 stud , max 20NM	M10 stud , max 20NM	M10 stud , max 20NM	M10 stud , max 20NM
Cable connections	Option: Top or Bottom	Option: Top or Bottom	Option: Top or Bottom	Option: Top or Bottom
IP-Protection class	IP 66 cell IP20 connection	IP 66 cell IP20 connection	IP 66 cell IP20 connection	IP 66 cell IP20 connection
Cooling	Natural air convection	Natural air convection	Natural air convection	Natural air convection
Module material	PC-ABS UL94-V0	PC-ABS UL94-V0	PC-ABS UL94-V0	PC-ABS UL94-V0
Battery case material	Aluminum Powdercoat	Aluminum Powdercoat	Aluminum Powdercoat	Aluminum Powdercoat
Dimensions (l x h x w)	870 x 280 x 465 (540) mm	870 x 280 x 465 (540) mm	990 x 340 x 920 (995) mm	1380 x 340 x 920 (995) mm
Dimensions (l x h x w) inches	34,3 x 11 x 18,3 (21,3") inches	34,3 x 11 x 18,3 (21,3") inches	39 x 13,4 x 36,2 (39,2") inches	54,3 x 13,4 x 36,2 (39,2") inches
Total weight module plus cabinet	±100-110kg / 220-243 lbs	±100-110 kg / 220-243 lbs	±200-210 kg / 441-463 lbs	±290-300 kg / 640-622 lbs
Safety				
Battery Management System (BMS)	External WP-BIM module	External WP-BIM module	External WP-BIM module	External WP-BIM module
Balancing	Passive method	Passive method	Passive method	Passive method
Communication CAN-Bus	Whisperconnect/NMEA2000	Whisperconnect/NMEA2000	Whisperconnect/NMEA2000	Whisperconnect/NMEA2000
EMC: Emission	EN-IEC 61000-6-3:2007/A1:2011/C11:2012	EN-IEC 61000-6-3:2007/A1:2011/C11:2012	EN-IEC 61000-6-3:2007/A1:2011/C11:2012	EN-IEC 61000-6-3:2007/A1:2011/C11:2012
EMC: Immunity	EN-IEC 61000-6-1:2007	EN-IEC 61000-6-1:2007	EN-IEC 61000-6-1:2007	EN-IEC 61000-6-1:2007
Low voltage directive	EN 60335-1:2012/AC:2014	EN 60335-1:2012/AC:2014	EN 60335-1:2012/AC:2014	EN 60335-1:2012/AC:2014
Certifications	CE, FCC, UN 38.3, UL 1642 (Cells), UN ECE R10.06, EN/IEC 62620 (ESTRIN)		CE, FCC, UN 38.3, UL 1642 (Cells), UN ECE R10.06, EN/IEC 62620 (ESTRIN)	
Shipping classification	UN 3480	UN 3480	UN 3480	UN 3480



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