

# LiPX

## Modular Power Systems

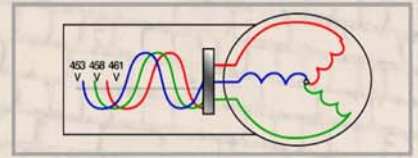


[www.LiPX.eu](http://www.LiPX.eu)





Intelligent & remote monitoring



Mono, Dual & Three phase



RCD & Isolation protection



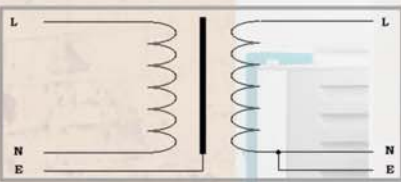
1,2kW -> 35kW power available



User defined AC & DC outlets



Multiple LiPX can be combined



HF Galvanic Grid Isolation



Diesel/Solar/Wind Hybrid Ready



Automatic Battery Safety Cut-off



Different canopies available



Easy & Safe Battery Change



Digital MasterBus Control



2 -> 50Kwh Energy Storage



Safest LiFePo4 Technology



LiPX Ultra is the powerful combination of Navex Elektro Engineering & Mastervolt Technology. Using the new Lithium Ion Battery, we've developed a real unrivaled powerhouse!

The LiPX Ultra is a pre-installed modular energy system. The whole assembly is done with our extended expertise, what makes it a real plug and play installation. We know that every installation is different and every client has other needs; that is why we made the LiPX Ultra adaptable to the needs of the customer. A true tailor made energy system, so to speak!

The LiPX Ultra is equipped with a Mastervolt Combi (= advanced battery charger and silent inverter rolled into one compact device), together with one or more Mastervolt Lithium Ion battery. Optionally, it can be equipped with extra combi, HF transformer and or seperate battery charger & inverter (online UPS function),... It is ideal for service vehicles, sales and demonstration vehicles, mobile libraries and banks, as well as for heavier automotive applications such as police, fire brigade and ambulances (E-mark certified components). It's plug & play installation makes it modular, to be used in multiple applications.

With no noise or emission fumes, the LiPX Ultra is safe to use in all environments, even tunnels or other indoor applications. With 100% galvanic isolation, it is also safe to isolate all electrical equipment. Besides these unique features, there is also no need for special qualified personnel to use LiPX Ultra.

Finally the unique Powerboost feature allows to connect the LiPX Ultra to a limited grid or generator supply and deliver extra power. Multiple units can be used together, to create a longer autonomy, higher output power, or both!



Mobile, Modular, replaces gensets

Professional Camera / Lighting Systems



Emergency Power Systems

On & Off Grid Backup Power



Mobile work equipment



Specifications	LiPX 2.5 Ultra	LiPX 5 Ultra	LiPX 5 Ultra <sup>2</sup>	LiPX 10 Ultra	LiPX 10 Ultra <sup>2</sup>
Nom. DC voltage	12V [13,2V]	24V [26,4V]	24V [26,4V]	24V [26,4V]	24V [26,4V]
Max. energy content in Wh	2500 Wh	5000 Wh	5000 Wh	10000 Wh	10000 Wh
Max. energy content in Ah	180 Ah	180 Ah	180 Ah	360 Ah	360 Ah
Usefull energy content in Wh	2000 Wh	4000 Wh	4000 Wh	8000 Wh	8000 Wh
Usefull energy content in Ah	145 Ah	140 Ah	140 Ah	280 Ah	280 Ah
Battery technology	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
DC power/feed available?	Yes, 12V 250A max.	Yes, 24V 500A max.	Yes, 24V 500A max.	Yes, 24V 500A max.	Yes, 24V 500A max.
Max. recharge time @ typ. 16A AC plug	1 hour @ 40° C	1,5 hours @ 40° C	1,5 hours @ 40° C	3 hours @ 40° C	3 hours @ 40° C
Galvanic Isolated to AC grid?	No - ext. Mass GI	Yes, optionally	Yes, optionally	Yes, optionally	Yes, optionally
Nom. DC voltage inverter	12V	24V	24V	24V	24V
Cont. Power inverter @ 40° C, cos phi 1	3000 VA	3500 VA	7000 VA	3500 VA	7000 VA
Surge capability inverter	5400 VA	7000 VA	14000 VA	7000 VA	14000 VA
Parallel with grid/generator?	Yes	Yes	Yes	Yes	Yes
Parallel configuration possible?	Yes (max. 10x)	Yes (max. 10x)	Yes (max. 5x)	Yes (max. 10x)	Yes (max. 5x)
3-Phase configuration possible?	Yes (max. 3x3)	Yes (max. 3x3)	Yes (max. 3x3)	Yes (max. 3x3)	Yes (max. 3x3)
Output voltage inverter (+/- 5%)	230VAC 50Hz/60Hz (adjustable by DIP switch)				
Output waveform	True sine wave, max. 5% distortion, 1% typical				
Nom. AC input voltage	230V (180-265V) 45-65Hz				
AC voltage correction?	No				
Max. charge current <b>(adjustable)</b>	150A	100A	200A	100A	200A
Primary AC consumption (full charge)	2565 W - 11,2A	3480 W - 15,2A	6960 W - 31A	3480 W - 15,2A	6960 W - 31A
Max. AC transfer current (power)	65A				
Max. AC inverter current (short break)	50A				
Transfer time external input	seamless (UPS, <1 ms)				
Temperature range (ambient temp)	-25° C to 60° C, derating > 40°C				
Protection degree	IP23 / up to IP54 with outdoor canopy				
Cooling	Maintenance free vario fans				
Sound Level	48 dBA @ 1 meter				
Protections	over temperature, over load, short circuit, high battery, low battery				
MasterBus Compatible?	yes, in combination with a MasterBus Combi Interface				
Dimensions LxWxH in cm	40x40x70	65x40x70	65x40x70	80x60x70	80x60x70
Weight (without options)	55 kg	80 kg	98 kg	135 kg	155 kg
Options					
Mastervolt Isolation transformer	No, external	Yes	No, external	Yes	Yes
Extra 3,5kVA inverter/charger	No, external	Yes, LiPX 5 Ultra <sup>2</sup>	No, external	Yes, LiPx 10 Ultra <sup>2</sup>	Yes, no Mass GI
Extra Battery Charger	No, external	Yes, up to 100A	No, external	Yes, up to 200A	No