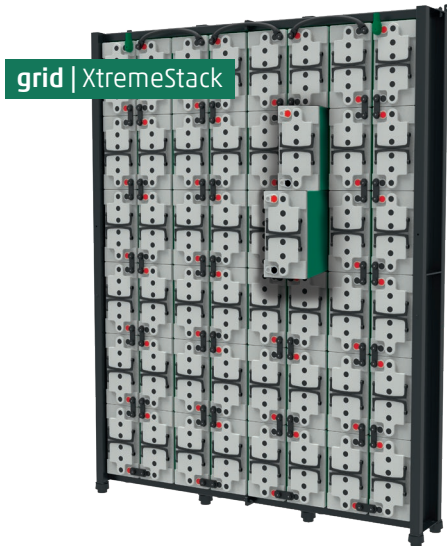


Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48

Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новыйорск (3496)41-32-12
Новосибирск (383)227-86-73
Киргизия (996)312-96-26-47

Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Россия (495)268-04-70

Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93
Казахстан (772)734-952-31



The grid | XtremeStack is tailored to the grid | Xtreme VR batteries in the top terminal variants. If, for example, the UPS performance requirements change, additional modules and batteries can easily be added or removed. The modular approach of grid | XtremeStack ensures optimal maintenance, scalability and flexibility.

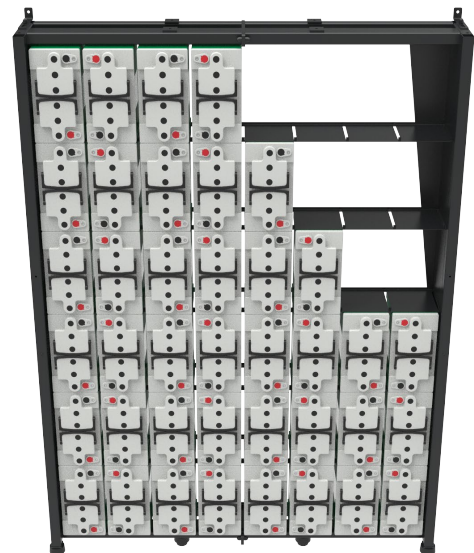
Construction

The design of the system allows the existing floor space to be compacted over time without taking up additional square metres.

The result: Compared to conventional battery racks, the space requirement is reduced by up to 60%. The modular design of grid | XtremeStack keeps the footprint small and makes installation and commissioning easy. Standardized modules lead to fewer spare parts to stock and simplified system upgrades. The scalability and exceptionally energy-efficient design also contribute to a low total cost of ownership.

Product specifics

Compared to conventional battery racks, the batteries in the new grid | XtremeStack are stored upright and without gaps. This unique arrangement has several advantages: It supports the function and at the same time saves space and is easy to maintain. Maximizing dimensional stability through the innovative design and the heavy-duty plastic of the battery case allows the carrying of the multiple weight of each individual battery and the elimination of the safeguard-tec.





Construction

- ▶ Maximizing dimensional stability through the innovative design and the heavy-duty plastic of the battery case allows the carrying of the multiple weight of each individual battery.
- ▶ The intelligent use of the battery weight leads to elimination of case deformation of AGM batteries. This allows the waiver of the safeguard-tec.
- ▶ Modular and scalable compact array of batteries - the system grows and shrinks with your requirements.
- ▶ The separate intermediate layers serve as alignment or assembly aid for the correct insertion of the batteries in the frame and therefore cause the omission of horizontal support planes.
- ▶ Complies with the international standard EN 62485-2.



Installation & Operation

- ▶ Function-supporting and at the same time space-saving and maintenance-friendly arrangement.
- ▶ Quick and easy installation in just 5 steps - low assembly effort on site.
- ▶ Low part complexity and development according to the Poka Yoke principle.
- ▶ The assembly and installation instructions for the batteries and of the racks must be strictly observed.
- ▶ Maximum space efficiency with the highest energy density.
- ▶ Easy access to batteries reduces operating costs and therefore save time and money.
- ▶ It must be ensured to always start with a Base frame per row. The full or half sections are connected laterally to the Base frame.

Type overview **grid** | XtremeStack

grid | Xtreme VR 12-110 Ah

Short description	Row	Frame version	Battery type	Batteries per row	Level	Dimensions* L x W x H [mm]	Rack weight [kg]	Projected area load* [kg/m ²]	Fig.
grid XtremeStack 1R BF VR12-110 8x4	1 - row	Base Frame	VR12-110	8	4	1606 x 244 x 1390	59.0	2,934	A
grid XtremeStack 1R FS VR12-110 8x4	1 - row	Full Section	VR12-110	8	4	1536 x 244 x 1390	50.0	3,038	B
grid XtremeStack 1R HS VR12-110 4x4	1 - row	Half Section	VR12-110	4	4	803 x 244 x 1390	29.5	2,934	C
grid XtremeStack 1R BF VR12-110 8x5	1 - row	Base Frame	VR12-110	8	5	1606 x 244 x 1712	64.1	3,643	A
grid XtremeStack 1R FS VR12-110 8x5	1 - row	Full Section	VR12-110	8	5	1536 x 244 x 1712	53.1	3,772	B
grid XtremeStack 1R HS VR12-110 4x5	1 - row	Half Section	VR12-110	4	5	803 x 244 x 1712	32.1	3,643	C
grid XtremeStack 1R BF VR12-110 8x6	1 - row	Base Frame	VR12-110	8	6	1606 x 244 x 2034	69.2	4,352	A
grid XtremeStack 1R FS VR12-110 8x6	1 - row	Full Section	VR12-110	8	6	1536 x 244 x 2034	56.2	4,507	B
grid XtremeStack 1R HS VR12-110 4x6	1 - row	Half Section	VR12-110	4	6	803 x 244 x 2034	34.6	4,352	C
grid XtremeStack 2R BF VR12-110 8x4	2 - row	Base Frame	VR12-110	8	4	1606 x 488 x 1390	107.0	2,920	A
grid XtremeStack 2R FS VR12-110 8x4	2 - row	Full Section	VR12-110	8	4	1536 x 488 x 1390	57.9	3,028	B
grid XtremeStack 2R HS VR12-110 4x4	2 - row	Half Section	VR12-110	4	4	803 x 488 x 1390	53.5	2,920	C
grid XtremeStack 2R BF VR12-110 8x5	2 - row	Base Frame	VR12-110	8	5	1606 x 488 x 1712	115.8	3,627	A
grid XtremeStack 2R FS VR12-110 8x5	2 - row	Full Section	VR12-110	8	5	1536 x 488 x 1712	97.2	3,768	B
grid XtremeStack 2R HS VR12-110 4x5	2 - row	Half Section	VR12-110	4	5	803 x 488 x 1712	57.9	3,627	C
grid XtremeStack 2R BF VR12-110 8x6	2 - row	Base Frame	VR12-110	8	6	1606 x 488 x 2034	124.6	4,334	A
grid XtremeStack 2R FS VR12-110 8x6	2 - row	Full Section	VR12-110	8	6	1536 x 488 x 2034	102.7	4,502	B
grid XtremeStack 2R HS VR12-110 4x6	2 - row	Half Section	VR12-110	4	6	803 x 488 x 2034	62.3	4,334	C

* with **grid** | Xtreme VR batteries

Type overview **grid** | XtremeStack

grid | Xtreme VR 12-150 Ah

Short description	Row	Frame version	Battery type	Batteries per row	Level	Dimensions* L x W x H [mm]	Rack weight [kg]	Projected area load* [kg/m ²]	Fig.
grid XtremeStack 1R BF VR12-150 8x4	1 - row	Base Frame	VR12-150	8	4	1606 x 294 x 1548	61.2	5,734	A
grid XtremeStack 1R FS VR12-150 8x4	1 - row	Full Section	VR12-150	8	4	1536 x 294 x 1548	51.1	5,973	B
grid XtremeStack 1R HS VR12-150 4x4	1 - row	Half Section	VR12-150	4	4	803 x 294 x 1548	30.6	5,734	C
grid XtremeStack 1R BF VR12-150 8x5	1 - row	Base Frame	VR12-150	8	5	1606 x 294 x 1908	66.7	6,180	A
grid XtremeStack 1R FS VR12-150 8x5	1 - row	Full Section	VR12-150	8	5	1536 x 294 x 1908	54.4	6,435	B
grid XtremeStack 1R HS VR12-150 4x5	1 - row	Half Section	VR12-150	4	5	803 x 294 x 1908	33.4	6,180	C
grid XtremeStack 1R BF VR12-150 8x6	1 - row	Base Frame	VR12-150	8	6	1606 x 294 x 2268	72.4	6,646	A
grid XtremeStack 1R FS VR12-150 8x6	1 - row	Full Section	VR12-150	8	6	1536 x 294 x 2268	57.8	6,916	B
grid XtremeStack 1R HS VR12-150 4x6	1 - row	Half Section	VR12-150	4	6	803 x 294 x 2268	36.2	6,646	C
grid XtremeStack 2R BF VR12-150 8x4	2 - row	Base Frame	VR12-150	8	4	1606 x 588 x 1548	112.4	5,230	A
grid XtremeStack 2R FS VR12-150 8x4	2 - row	Full Section	VR12-150	8	4	1536 x 588 x 1548	94.4	5,449	B
grid XtremeStack 2R HS VR12-150 4x4	2 - row	Half Section	VR12-150	4	4	803 x 588 x 1548	56.2	5,230	C
grid XtremeStack 2R BF VR12-110 8x5	2 - row	Base Frame	VR12-150	8	5	1606 x 588 x 1908	121.8	5,595	A
grid XtremeStack 2R FS VR12-150 8x5	2 - row	Full Section	VR12-150	8	5	1536 x 588 x 1908	100.2	5,826	B
grid XtremeStack 2R HS VR12-150 4x5	2 - row	Half Section	VR12-150	4	5	803 x 588 x 1908	60.9	5,595	C
grid XtremeStack 2R BF VR12-150 8x6	2 - row	Base Frame	VR12-150	8	6	1606 x 588 x 2268	131.2	5,960	A
grid XtremeStack 2R FS VR12-150 8x6	2 - row	Full Section	VR12-150	8	6	1536 x 588 x 2268	106.0	6,204	B
grid XtremeStack 2R HS VR12-150 4x6	2 - row	Half Section	VR12-150	4	6	803 x 588 x 2268	65.6	5,960	C

Type overview **grid** | XtremeStack

grid | Xtreme VR 12-170 Ah

Short description	Row	Frame version	Battery type	Batteries per row	Level	Dimensions* L x W x H [mm]	Rack weight [kg]	Projected area load* [kg/m ²]	Fig.
grid XtremeStack 1R BF VR12-170 8x4	1 - row	Base Frame	VR12-170	8	4	1606 x 244 x 2100	68.0	4,370	A
grid XtremeStack 1R FS VR12-170 8x4	1 - row	Full Section	VR12-170	8	4	1536 x 244 x 2100	54.5	4,533	B
grid XtremeStack 1R HS VR12-170 4x4	1 - row	Half Section	VR12-170	4	4	803 x 244 x 2100	34.0	4,370	C
grid XtremeStack 1R BF VR12-170 8x5	1 - row	Base Frame	VR12-170	8	5	1606 x 244 x 2600	78.2	5,445	A
grid XtremeStack 1R FS VR12-170 8x5	1 - row	Full Section	VR12-170	8	5	1536 x 244 x 2600	64.7	5,657	B
grid XtremeStack 1R HS VR12-170 4x5	1 - row	Half Section	VR12-170	4	5	803 x 244 x 2600	43.7	5,445	C
grid XtremeStack 2R BF VR12-170 8x4	2 - row	Base Frame	VR12-170	8	4	1606 x 488 x 2100	123.4	4,354	A
grid XtremeStack 2R FS VR12-170 8x4	2 - row	Full Section	VR12-170	8	4	1536 x 488 x 2100	99.9	4,521	B
grid XtremeStack 2R HS VR12-170 4x4	2 - row	Half Section	VR12-170	4	4	803 x 488 x 2100	61.7	4,354	C
grid XtremeStack 2R BF VR12-170 8x5	2 - row	Base Frame	VR12-170	8	5	1606 x 488 x 2600	143.6	5,428	A
grid XtremeStack 2R FS VR12-170 8x5	2 - row	Full Section	VR12-170	8	5	1536 x 488 x 2600	120.1	5,644	B
grid XtremeStack 2R HS VR12-170 4x5	2 - row	Half Section	VR12-170	4	5	803 x 488 x 2600	80.8	5,428	C

* with grid | Xtreme VR batteries

BASIS

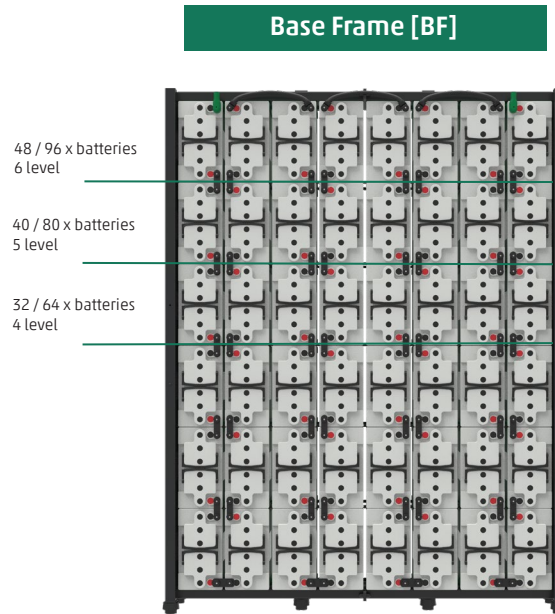
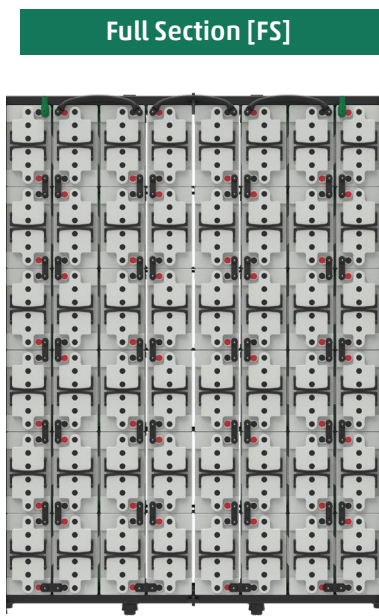


Fig. A

EXTENSION OPTIONS



and/or

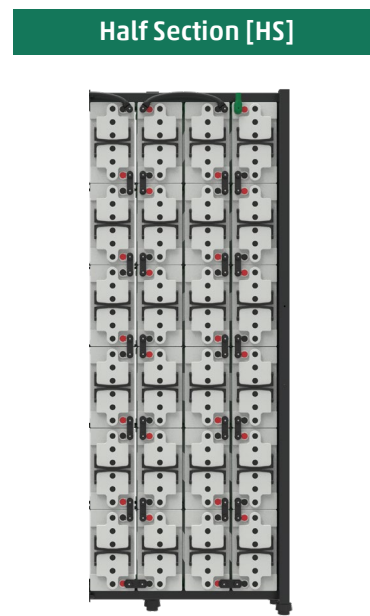


Fig. C

<https://hoppecke.nt-rt.ru> | hec@nt-rt.ru

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48

Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Киргизия (996)312-96-26-47

Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Россия (495)268-04-70

Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93
Казахстан (772)734-952-31