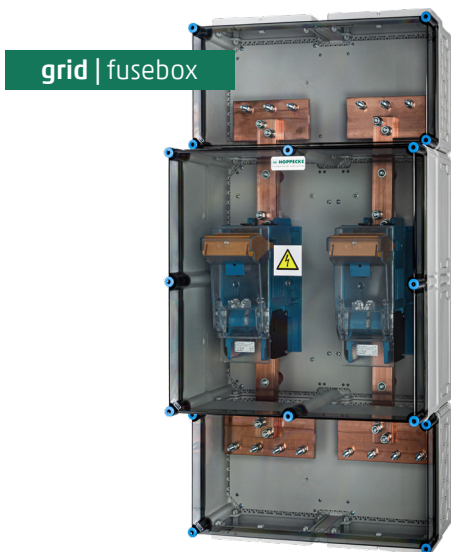


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Battery back-up load disconnecter for disconnecting and protecting the battery installation

Protects your Equipment

To protect your battery, installation the grid | fusebox safely cuts off the electrical connection to the battery in case of a problematic failure. This protects the installation by avoiding the occurrence of subsequent damages and catastrophic events, such as melting cables or fires.

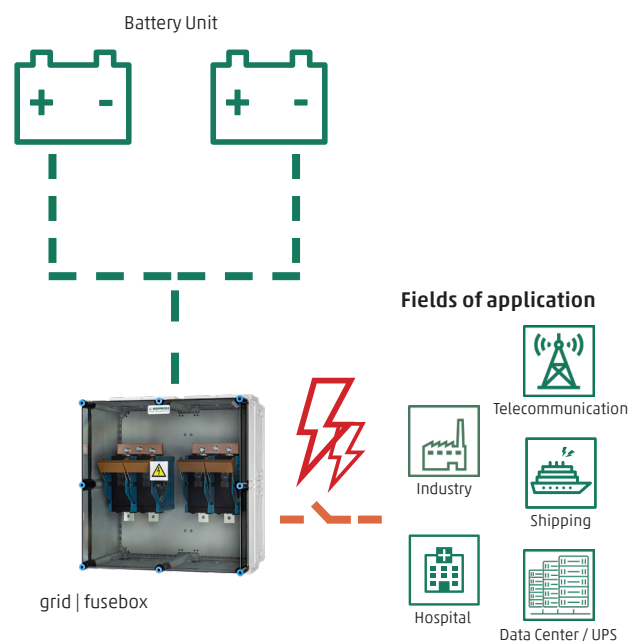
grid | fusebox provides simple as well as instant electrical disconnection of the battery installation in case of excessive load based on the principle of a fusible insert. The insert is selected according to the requirements of the specific application and protects against current overload and short circuit. With grid | fusebox, the protection of your installation is in accordance with DIN EN 50272-7.

Reduces Downtimes

The grid | fusebox provides instant information in case a fuse has tripped. A mechanical knockout triggers a signal that can easily be relayed to an alarm or control system (e.g. SCADA). This allows fast start of failure analysis and subsequent remedy of the root cause. The sector or origin of failure can be identified easily and the availability of the system can be restored in due time.

Fulfills your requirements

Every grid | fusebox fulfills the requirements of your individual installation, where the number of variants is almost infinite. HOPPECKE sizes accordingly by choosing the correct technical set-up (i.e. number of conduits, wire diameter, number and size of boxes, etc.). However, a predefined set of components and standardized building blocks helps us to quote and deliver quickly according to your needs.



Product overview **grid | fusebox**

Technical specification

2 breakers

	grid fusebox 160 A	grid fusebox 250 A	grid fusebox 400 A	grid fusebox 630 A	grid fusebox 1250 A *	grid fusebox 1600 A *
Installation size	NH00	NH1	NH2	NH3	NH4	NH4
No. of breakers	2	2	2	2	2	2
Current	160 A	250 A	400 A	630 A	1250 A	1600 A
Voltage	550 VDC	550 VDC	550 VDC	550 VDC	550 VDC	550 VDC
Min. box dimension	150x300x170 mm	600x300x255 mm	600x300x255 mm	600x300x255 mm	800x600x300 mm	800x600x300 mm
Max. box dimension	400x400x200 mm	750x275x250 mm	750x275x250 mm	750x275x250 mm	1200x600x255 mm	1200x600x255 mm
Input cable glands	2	2	4	4	8	8
Output cable glands	2	2	4	4	8	8
Wire diameter	25	32	32	40	40	50
Connection type	ring lugs M8	ring lugs M10	ring lugs M10	ring lugs M12	ring lugs M10	ring lugs M10
Weight **	2.5 - 9.5 kg	9 - 19 kg	9.3 - 19 kg	11 - 21 kg	39 - 49 kg	44 - 54 kg
Ambient temp **	-40 °C to +55 °C	-40 °C to +55 °C	-40 °C to +55 °C	-40 °C to +55 °C	-40 °C to +55 °C	-40 °C to +55 °C
Degree of protection **	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65
Mounting	wall-mounted	wall-mounted	wall-mounted	wall-mounted	wall-mounted	wall-mounted

* Optional two separate boxes

** Parameter depends on applied components

3 breakers

	grid fusebox 160 A	grid fusebox 250 A	grid fusebox 400 A	grid fusebox 630 A	grid fusebox 1250 A	grid fusebox 1600 A
Installation size	NH00	NH1	NH2	NH3	NH4	NH4
No. of breakers	3	3	3	3	3	3
Current	160 A	250 A	400 A	630 A	1250 A	1600 A
Voltage	550 VDC	550 VDC	550 VDC	550 VDC	550 VDC	550 VDC
Min. box dimension	300x300x170 mm	750x375x250 mm	750x375x250 mm	500x500x300 mm	1200x900x255 mm	1200x900x255 mm
Max. box dimension	400x400x200 mm	600x600x255 mm	600x600x255 mm	600x600x255 mm	1000x800x300 mm	1000x800x300 mm
Input cable glands	3	3	6	6	12	12
Output cable glands	3	3	6	6	12	12
Wire diameter	25	32	32	40	40	50
Connection type	ring lugs M8	ring lugs M10	ring lugs M10	ring lugs M12	ring lugs M10	ring lugs M10
Weight **	4 - 10 kg	15 - 21 kg	15 - 21 kg	19 - 24 kg	72 - 79 kg	85 - 92 kg
Ambient temp **	-40 °C to +55 °C	-40 °C to +55 °C	-40 °C to +55 °C	-40 °C to +55 °C	-40 °C to +55 °C	-40 °C to +55 °C
Degree of protection **	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65
Mounting	wall-mounted	wall-mounted	wall-mounted	wall-mounted	wall-mounted	wall-mounted

** Parameter depends on applied components

Technical specification

2 x 2 breakers

	grid fusebox 500 A	grid fusebox 800 A	grid fusebox 1260 A	grid fusebox 2500 A	grid fusebox 3200 A
Installation size	NH1	NH2	NH3	NH4	NH4
No. of breakers	2 x 2	2 x 2	2 x 2	2 x 2	2 x 2
Current	500 A	800 A	1260 A	2500 A	3200 A
Voltage	550 VDC	550 VDC	550 VDC	550 VDC	550 VDC
Min. box dimension	800x600x300 mm	800x600x300 mm	800x600x300 mm	1125x750x250 mm	1125x750x250 mm
Max. box dimension	1125x750x250 mm	1125x750x250 mm	1125x750x250 mm	1200x1200x255 mm	1200x1200x255 mm
Input cable glands	2 x 8	2 x 8	2 x 8	2 x 16	2 x 16
Output cable glands	2 x 8	2 x 8	2 x 8	2 x 16	2 x 16
Wire diameter	32	32	40	40	50
Connection type	ring lugs M10	ring lugs M10	ring lugs M10	ring lugs M10	ring lugs M10
Weight **	38 - 42 kg	40 - 43 kg	49 - 54 kg	84 - 111 kg	101 - 144 kg
Ambient temp **	-40 °C to +55 °C	-40 °C to +55 °C	-40 °C to +55 °C	-40 °C to +55 °C	-40 °C to +55 °C
Degree of protection **	IP 65	IP 65	IP 65	IP 65	IP 65
Mounting	wall-mounted	wall-mounted	wall-mounted	wall-mounted	wall-mounted

** Parameter depends on applied components

2 x 3 breakers

	grid fusebox 500 A	grid fusebox 800 A	grid fusebox 1260 A
Installation size	NH1	NH2	NH3
No. of breakers	2 x 3	2 x 3	2 x 3
Current	500 A	800 A	1260 A
Voltage	550 VDC	550 VDC	550 VDC
Min. box dimension	1000x800x300 mm	1000x800x300 mm	1000x800x300 mm
Max. box dimension	1200x900x055 mm	1200x900x055 mm	1200x900x055 mm
Input cable glands	2 x 12	2 x 12	2 x 12
Output cable glands	2 x 12	2 x 12	2 x 12
Wire diameter	32	32	40
Connection type	ring lugs M10	ring lugs M10	ring lugs M10
Weight **	54 - 60 kg	56 - 62 kg	66 - 81 kg
Ambient temp **	-40 °C to +55 °C	-40 °C to +55 °C	-40 °C to +55 °C
Degree of protection **	IP 65	IP 65	IP 65
Mounting	wall-mounted	wall-mounted	wall-mounted



sun | fusebox

Battery back-up load disconnecter for disconnecting and protecting the battery installation

Typical applications:

- PV home storage solutions
- PV off-grid applications

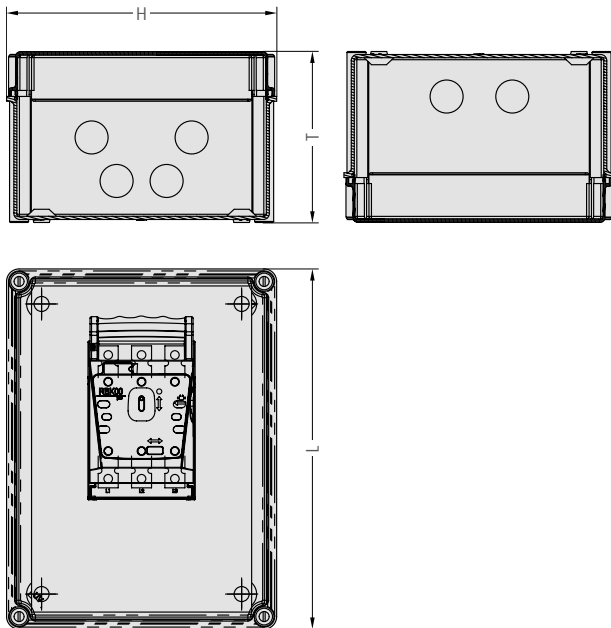
Your benefits:

- **Safety** – battery protection according to the DIN EN 50272-2 with a all-pole disconnection of your battery installation
- **Functionality** – simple and rapid disconnecting of the battery installation; strain relief due to cable glands
- **Flexibility** – suitable for single, serial and parallel design of your 24 V and 48 V battery installations up to 160 A NH00 and 400 A NH2
- **Compatibility** – suitable for connection to 24 V and 48 V battery inverters

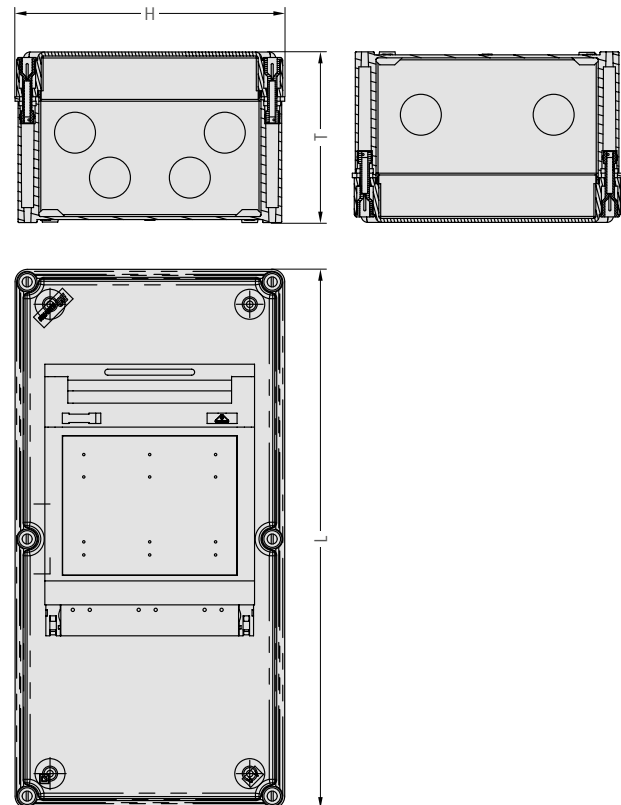
Technical specifications

	sun fusebox 160 A	sun fusebox 300 A
Installation size	NH00	NH2
Fuse link	160 A	300 A
Input cable glands	4	4
Output cable glands	2	2
Cable diameter	18 - 25 mm (M32)	22 - 32 mm (M40)
Cable cross section	50 - 70 qmm	95 - 150 qmm
Cable connection	flat connection M8	flat connection M10
Dimensions (L x H x D)	360 x 270 x 170 mm	540 x 270 x 170 mm
Weight	3.5 kg	9 kg
Ambient temperature	-25 °C to +55 °C	-25 °C to +55 °C
Max. humidity	100%	100%
Degree of protection	IP 65	IP 65
Mounting	wall-mounted	wall-mounted

sun | fusebox 160 A



sun | fusebox 300 A



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

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