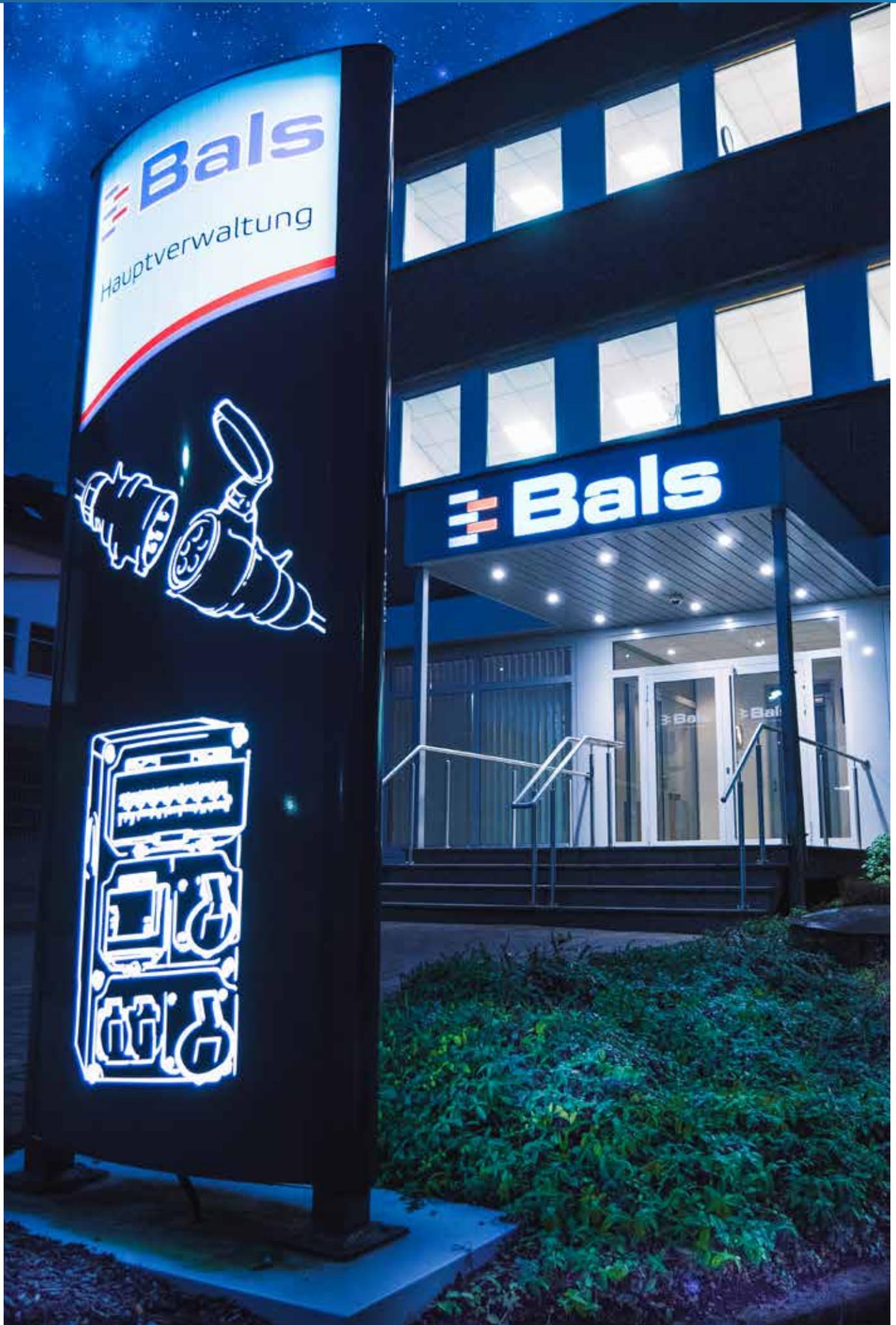


Event Technology





About half a century competence and experience

Bals stands worldwide as a quality brand for innovation, reliability and service. For more than 60 years, we have been producing CEE plugs and connectors for the world markets. From day one we have focussed on the highest level of quality "Made in Germany". Our factories in Kirchhundem-Albaum, Würdinghausen and Freivalde have highly skilled and motivated teams, the very latest manufac-

turing facilities and a highly efficient logistics system. Our product portfolio ranges from plugs, phase inverters, connectors, sockets outlets and combinations units to charging plugs and sockets for electrical vehicles. Numerous certifications from German and foreign certification institutes, as well as registered designs and patents, document the high technical standard of our products.



Three modern factories a consistent quality standard

From the beginning the headquarters of our company is located in Kirchhundem-Albaum (North-Rhine-Westphalia). Product development, marketing and sales, as well as administration are located here. In addition, plug and socket systems and special products are manufactured in the Kirchhundem-Albaum factory. The factory in Freivalde (Brandenburg), built in 1994 and expanded many times since, has state-of-the-art production facilities for fully-automatic manufacturing of unique CEE plugs and connectors as well as a highly-effective logistics centre. Our plant in Würdinghausen is brand new, this is where the components for Emobility are manufactured. Our training center is located in the adjoining building.



CEE plugs and connectors for the world market

As an independent, medium-sized, family-owned company, we produce standardised industrial plugs and sockets acc. to IEC 60309 1-2 as well as plug and socket systems, distributors and components for the infrastructure of electrical vehicles. We set new technical standards with innovations and ground-breaking, partially patented new developments such as MULTI-GRIP or QUICK-CONNECT. The export rate in excess of 50 percent shows: Our solutions are highly valued around the world. Our products are sold in more than 80 countries. Subsidiaries and exclusive partners in strategically important countries only sell our products.



Customer proximity: You can rely on us

Always close to the customers. For us, this is no empty phrase but reality. Flexibility, customer orientation and the ability to quickly respond to short-term requirements are a matter of course for us. For this reason, integrated production - from the product idea and design to tool making and production to the shipment of the products - is optimised for short processing paths and the fastest response times.

Panel Mounting Socket Outlet 16A/32A IP44

- Screwless terminals
- Kontex contact
- Nickel plated contacts
- Flange 75 x 75 mm
- Protection degree IP44

QUICK CONNECT

130274



Amperage	Poles	230V 50-60 Hz			400V 50-60 Hz			Quantity	Each
		3pol 6h	4pol 9h	5pol 9h	3pol 9h	4pol 6h	5pol 6h		
16	3	130269						10	110
16	4				130270			10	150
16	5				130271			10	170
32	3	130272						10	190
32	4				130273			10	205
32	5				130274			10	225

Panel Mounting Socket Outlet 63A IP44

- Screw terminals
- Flange 107 x 100 mm
- Kontex contact
- Nickel plated contacts
- Box terminals
- Protection degree IP44

130276



Amperage	Poles	230V 50-60 Hz			400V 50-60 Hz			Quantity	Each
		3pol 6h	4pol 9h	5pol 9h	3pol 9h	4pol 6h	5pol 6h		
63	3	130275						5	415
63	5				130276			5	490

Panel Mounting Socket Outlet 63A IP67/IP69

- Screw terminals
- Flange 107 x 100 mm
- Kontex contact
- Nickel plated contacts
- Box terminals
- Protection degree IP67/IP69

130276



Amperage	Poles	230V 50-60 Hz			400V 50-60 Hz			Quantity	Each
		3pol 6h	4pol 9h	5pol 9h	3pol 9h	4pol 6h	5pol 6h		
63	3	130315						5	415
63	5				130196			5	570

Panel Mounting Socket 16A/32A IP44

- Screwless terminals
- 20° angled
- Kontex contact
- Nickel plated contacts
- Flange 85 x 85 mm
- Protection degree IP44

QUICK CONNECT

120441



Amperage	Poles	230V 50-60 Hz			400V 50-60 Hz			Quantity	Each
		3pol 6h	4pol 9h	5pol 9h	3pol 9h	4pol 6h	5pol 6h		
16	3	120436						10	120
16	4				120437			10	140
16	5				120438			10	145
32	3	120439						10	200
32	4				120440			10	230
32	5				120441			10	265

Plug 16A/32A IP44

- Screwless terminals
- Nickel plated contacts
- Screwless enclosure connection, self locking
- Special gland, simultaneous cable gland and seal
- Protection degree IP44

QUICK CONNECT
MULTI GRIP



Amperage	Poles	230V 50-60 Hz			400V 50-60 Hz			Quantity	Each
		3pol 6h	4pol 9h	5pol 9h	3pol 9h	4pol 6h	5pol 6h		
16	3	211103						10	
16	4				210916			10	
16	5				211104			10	
32	3	210788						10	
32	4				210747			10	
32	5				210791			10	

Plug TE 63A IP44

- Screw terminals
- Box terminals
- High-temperature-resistant contact carrier
- Nickel plated contacts
- Screwless enclosure connection
- Special gland, simultaneous cable gland and seal
- Protection degree IP44



MULTI GRIP

210792

2P+E Ampere	3P+E Poles	230V 50-60 Hz			400V 50-60 Hz			Quantity	Each
		3pol 6h	4pol 9h	5pol 9h	3pol 9h	4pol 6h	5pol 6h		
63	3	210735					5	535	
63	4				211102			5	595
63	5				210792			5	650

Plug TE with MULTI-GRIP 63A/125A IP67/IP69

- Screw terminals
- Box terminals
- High-temperature-resistant contact carrier
- Nickel plated contacts
- Screwless enclosure connection
- Special gland, simultaneous cable gland and seal
- Protection degree IP67/IP69



MULTI GRIP

210711

2P+E Ampere	3P+E Poles	230V 50-60 Hz			400V 50-60 Hz			Quantity	Each
		3pol 6h	4pol 9h	5pol 9h	3pol 9h	4pol 6h	5pol 6h		
63	3	211127					5	535	
63	5				210710			5	715
125	5				210711			5	1235

Appliance Inlet with Flange 16A/32A IP44

- Screwless terminals
- Kontex contact
- Nickel plated contacts
- Flange 75 x 75 mm
- Protection degree IP44



QUICK CONNECT

28298

2P+E Ampere	3P+E Poles	230V 50-60 Hz			400V 50-60 Hz			Quantity	Each
		3pol 6h	4pol 9h	5pol 9h	3pol 9h	4pol 6h	5pol 6h		
16	3	28312					10	90	
16	4				28313			10	105
16	5				28314			10	125
32	3	28315					10	145	
32	4				28316			10	165
32	5				28298			10	195

Connector 16A/32A IP44

- Screwless terminals
- Kontex contact
- Nickel plated contacts
- Screwless enclosure connection, self locking
- Protection degree IP44



QUICK CONNECT
MULTI GRIP

310517

2P+E Ampere	3P+E Poles	230V 50-60 Hz			400V 50-60 Hz			Quantity	Each
		3pol 6h	4pol 9h	5pol 9h	3pol 9h	4pol 6h	5pol 6h		
16	3	310512					10	120	
16	4				310607			10	160
16	5				310515			10	165
32	3	310513					10	240	
32	4				310489			10	260
32	5				310517			10	300

Connector 63A IP44

- Screw terminals
- Box terminals
- High-temperature-resistant contact carrier
- Nickel plated contacts
- Screwless enclosure connection
- Special gland, simultaneous cable gland and seal
- Protection degree IP44



MULTI GRIP

310518

2P+E Ampere	3P+E Poles	230V 50-60 Hz			400V 50-60 Hz			Quantity	Each
		3pol 6h	4pol 9h	5pol 9h	3pol 9h	4pol 6h	5pol 6h		
63	3	310488					5	590	
63	4				310749			5	630
63	5				310518			5	670

Connector 63A/125A IP67/IP69

- Screw terminals
- Box terminals
- High-temperature-resistant contact carrier
- Nickel plated contacts
- Screwless enclosure connection
- Special gland, simultaneous cable gland and seal
- Protection degree IP67/IP69



MULTI GRIP

310466

Amperage	Poles	230V 50-60 Hz			400V 50-60 Hz			Quantity	Each
		3pol 6h	4pol 9h	5pol 9h	3pol 9h	4pol 6h	5pol 6h		
63	3	310771					5	650	
63	5				310465			5	725
125	5				310466			5	1300

Cable Gland with Additional Strain Relief

- In black for plugs and connectors with MULTI-GRIP cable gland

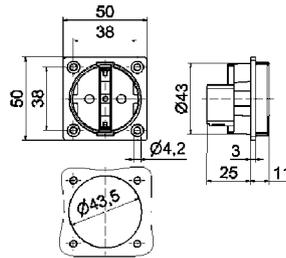


MULTI GRIP

	Ref. no.
for 16A / 3p, 4p TE + TE Plus	
16A / 3p, 4p, 5p QC + TLS	29951
for 16A / 5p TE + TE Plus	29151
for 32A / 5p TE + TE Plus	29152
for 63A / 3p, 4p, 5p TE + TE Plus	29153
for 125A / 3p, 4p, 5p TE	29154

Domestic Panel Mounting Socket Outlet IP20

- 16A 250V ~
- Screw terminals
- Nickel plated contacts
- Without hinged lid
- Connection at rear
- Protection degree IP20
- Type F - German standard



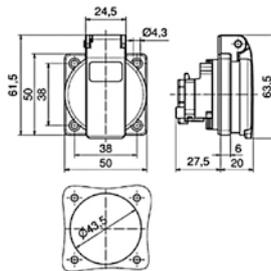
Color	Ref. no.	Qty
black	714	20

714

18 MB 1

Domestic Panel Mounting Socket Outlet stationary use IP54

- 16A 250V ~
- Screwless terminals
- Nickel plated contacts
- With moulded flange seal
- Connection terminal in accordance with BGV A2
- Protection degree IP54
- Type F - German standard



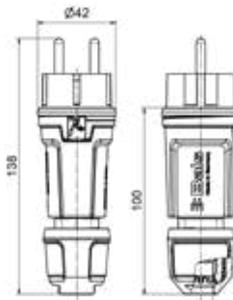
Color	Ref. no.	Qty	
black	71101	20	
Screw term.	black	71097	20

71101

18 MB 102

Domestic Type Plug

- Screw terminals with nickel-plated contacts
- Extra-large wiring space
- Also suitable for Belgian/French system
- IP54 protection degree
- Suitable for use under demanding conditions



Color	Ref. no.	Qty
black	7372-1	20

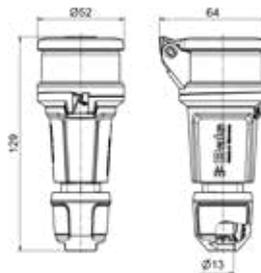
MULTI GRIP
SUSTAINABLE GRIP

Domestic Type Connector

- Screw terminals with nickel-plated contacts
- Extra-large wiring space
- Type F - German standard
- IP54 protection degree
- Suitable for use under demanding conditions



MULTI GRIP
SUSTAINABLE GRIP



Color	Ref. no.	Qty
black	7488-1	20

Solid-Rubber Enclosures

Components:
6 Domestic sockets 16A, 230V ~
(system F - German earthing System)

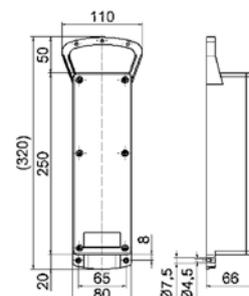
Cable entry / Input:
Cable gland M20

Order no.
530598 with blue domestic sockets
530599 with black domestic sockets

530598



530599



13 MB 57

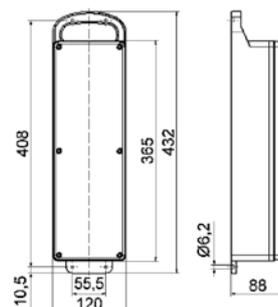
Solid-Rubber Enclosures

Components:
6 Domestic sockets 16A, 230V ~
(system F - German earthing System)

Cable entry/Input:
CEE plug 32A, 400V, 5p with
lead 1,8 m H07RN-F5G6

Order no.
530596 with 6 D-type MCBs 16A, 1p
530597 with 6 C-type MCBs 16A, 1p

530596



13 MB 7

On Request

- Extension lead
- Cable gland MULTI-GRIP with additional strain Relief



The mobile distributor generation

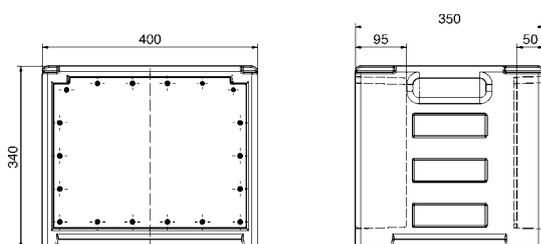
The new EVOBOX series is the ideal solution for mobile power supply in industry, on construction sites or in event technology.

Product information

- Available in 4 coordinated housing sizes
- Perfectly stackable
- Easy-to-handle, using integrated carrying grips
- No protruding components
- fuse elements under transparent operating windows
- Distributor outlets and fuse elements each separately on one side
- Ready wired for installation
- The internal wiring is designed for the highest possible safety via the specification standard
- Resistant to ageing and weather
- Lightweight and impact resistant through the use of hard-polyethylene

Product details

- Impact strength IK10, up to 20J impact energy
- Self-extinguishing and UV-stabilized
- Highly resistant thermally and mechanically
- Maintenance-free QUICK-CONNECT-technology for CEE up to 63A and domestic sockets
- Overall protection degree of the distributor is IP54
- Flexible fitting options up to 125A



 **EVOBOX-S**

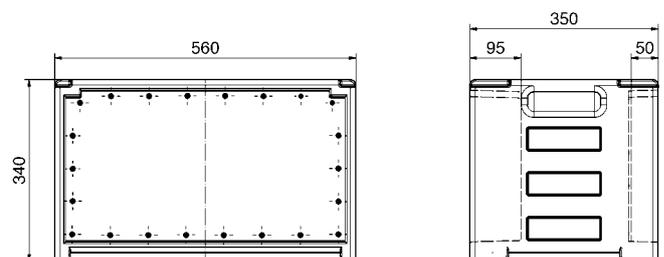
The portable distributor series is available in 4 coordinated housing sizes and impresses with its high mechanical and thermal capacity.

Optional

- Adapted arrangement of panel mounting sockets for plugs with protection degree IP67
- Phase control lights are easily visible under operating windows
- External earthing screw outside the housing
- Installation of overvoltage protection
- The housing can be blue, red and orange (minimum order quantity)
- all panel mounting socket outlets are available in black

Power supply

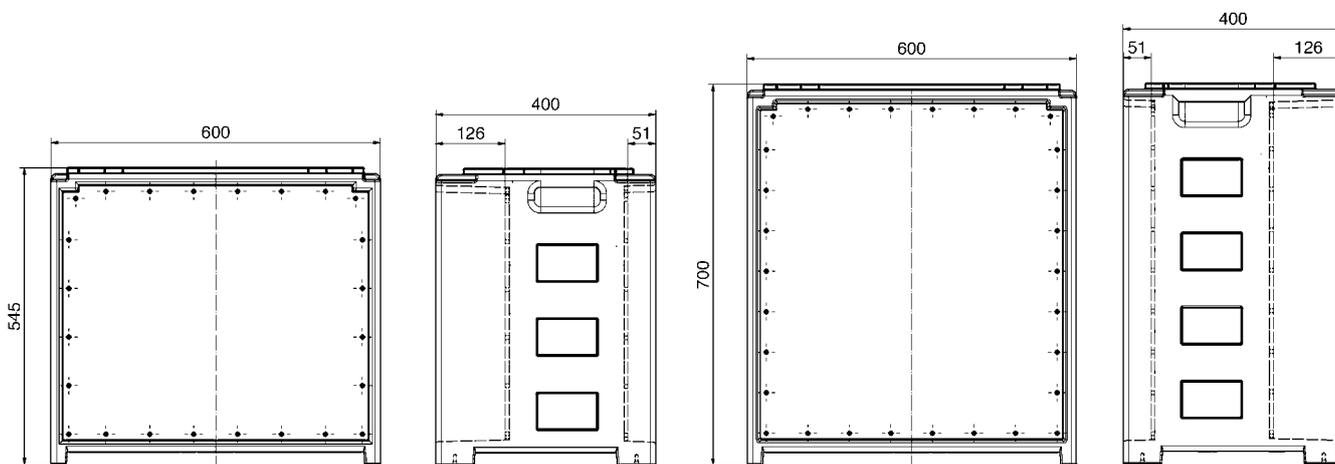
- Cable entry with CEE plug up to max. 125A
- CEE inlet up to max. 125A



 **EVOBOX-M**



The 4 coordinated housing sizes

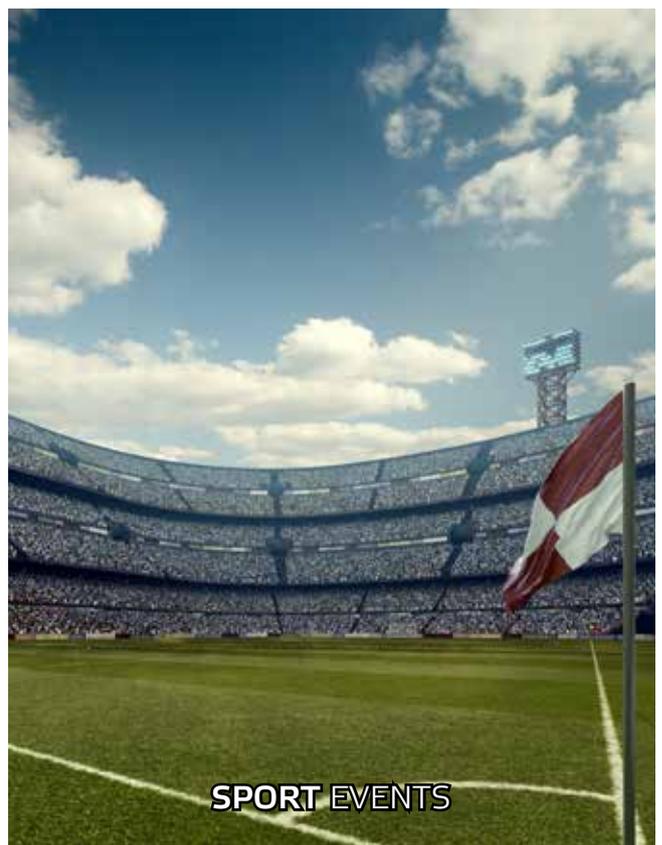


 **EVOBOX-L**

 **EVOBOX-XL**

One distributor - many areas of application

The mobile distributor generation **EVOBOX**, customized, depending on the area of application.



Components:

6 domestic sockets 16A, 230V, IP54
(Type F - German standard)
2 CEE sockets 16A, 400V, 5p, 6h, IP54

Fuse:

6 C-type MCBs 16A, 1p
1 C-type MCB 16A, 3p
1 RCCB 40/0,03A, 4p

Additional equipment:

1 phase control light, LED green
1 external earthing screw

Input:

1 CEE inlet 16A, 400V, 5p, 6h, IP67

Ref. no. **5202999**

 **EVOBOX-S**



Components:

9 domestic sockets 16A, 230V, IP54
(Type F - German standard)
3 CEE sockets 16A, 400V, 5p, 6h, IP54
1 CEE socket 32A, 400V, 5p, 6h, IP54

Fuse:

9 C-type MCBs 16A, 1p
3 C-type MCBs 16A, 3p
1 RCCB 40/0,03A, 4p

Additional equipment:

1 phase control light, LED green
1 external earthing screw

Input:

1 CEE inlet 32A, 400V, 5p, 6h, IP67

Ref. no. **5203000**

 **EVOBOX-M**



Components:

9 domestic sockets 16A, 230V, IP54
(Type F - German standard)
4 CEE sockets 16A, 400V, 5p, 6h, IP54
2 CEE sockets 32A, 400V, 5p, 6h, IP54
1 CEE socket 63A, 400V, 5p, 6h, IP67

Fuse:

9 C-type MCBs 16A, 1p
4 C-type MCBs 16A, 3p
2 C-type MCBs 32A, 3p
3 RCCBs 63/0,03A, 4p

Additional equipment:

1 phase control light, LED green
1 external earthing screw

Input:

1 CEE inlet 63A, 400V, 5p, 6h, IP67

Ref. no. **5203001**

 **EVOBOX-L**



Components:

9 domestic sockets 16A, 230V, IP54
(Type F - German standard)
4 CEE sockets 16A, 400V, 5p, 6h, IP54
4 CEE sockets 32A, 400V, 5p, 6h, IP54
2 CEE sockets 63A, 400V, 5p, 6h, IP67
1 CEE socket 125A, 400V, 5p, 6h, IP67

Fuse:

9 C-type MCBs 16A, 1p
4 C-type MCBs 32A, 3p
4 RCCBs 63/0,03A, 4p
4 C-type MCBs 16A, 3p
2 C-type MCBs 63A, 3p
2 RCCBs 63/0,5A, 4p

Additional equipment:

1 phase control light, LED green
1 external earthing screw

Input:

1 CEE inlet 125A, 400V, 5p, 6h, IP67

Ref. no. **5203002**

 **EVOBOX-XL**



 made
 in
 Germany



Simply. Well. Connected.

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