

**Variant Overview of the *MLoad* Battery
Emulator for DC Charging Stations**

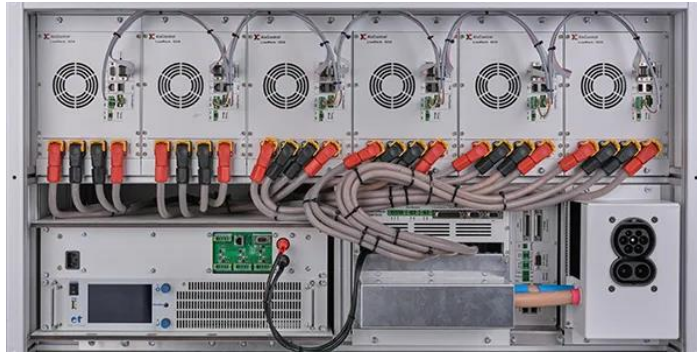
Mobile Load – EV Battery Emulator

- Electronically controlled BEV simulator
- CCS2 according to DIN70121 and ISO15118
- High performance in compact design
- Mobile use in car load compartments
- Intuitive operation via touch display
- 230 V Aux-supply
 - Battery-supported from power station
- Tested with various charging stations
 - Alpitronic, ABB, ionity, elexon, etc.



Mobile Load - Advantages

- Easy handling & safe transport
- Modular concept
 - Easy replacement on site
 - Simple subsequent expansion



Mobile Load - Variant Overview

Variant	Power Nom. / Peak	Current Nom. / Peak	Energy each cycle	Dimensions (w x h x d) in cm	Weight	Suitable vehicle
<u>MLoad 90 / 500</u>	45 kW / 90 kW	400A / 500 A	4.5 kWh	115 x 110 x 140	420 kg	<ul style="list-style-type: none"> • VW Caddy • MB Citan • ...
<u>MLoad 120 / 650</u>	45 kW / 120 kW	400 A / 650 A	4.5 kWh	115 x 110 x 140	420 kg	
<u>MLoad 150 / 800</u>	60 kW / 150 kW	500 A / 800 A	6 kWh	150 x 123 x 190	480 kg	<ul style="list-style-type: none"> • MB Vito • Opel Vivaro • ...
<u>MLoad 350 / 500</u>	75 kW / 350 kW	400 A / 500 A	7.5 kWh	150 x 123 x 190	540 kg	
<u>MLoad 420 / 650</u>	90 kW / 420 kW	400 A / 650 A	9 kWh	150 x 123 x 190	600 kg	
<u>MLoad 480 / 800</u>	100 kW / 480 kW	500 A / 800 A	10.5 kWh	170 x 160 x 190	660 kg	
<u>MLoad ___ / ___</u>	Customer specific solutions available up on request.					<ul style="list-style-type: none"> • MB Sprinter • Fiat Ducato • ...

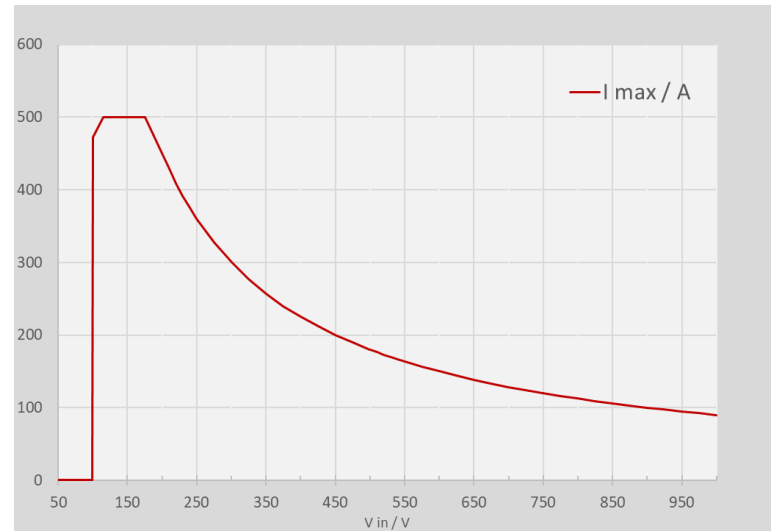
➤ Click on a variant for details.

MLoad 90 / 500

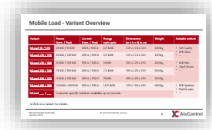


Compact system for 500 A min/max measurement

Current range	400 A _{nom} / 500 A @ 15 min
Voltage range	100 – 1000 V
Power	45 kW _{nom} / 90 kW @ 3 min
Energy	4,5 kWh each measurement / 7 min cooldown
Aux-supply	230 VAC / 4 A (powerblock)
Environment	-10°C – 40°C / IP 54
Size (w x h x d)	115 x 110 x 140 cm / 420 kg
Car fitting	VW Caddy, MB Citan, etc.



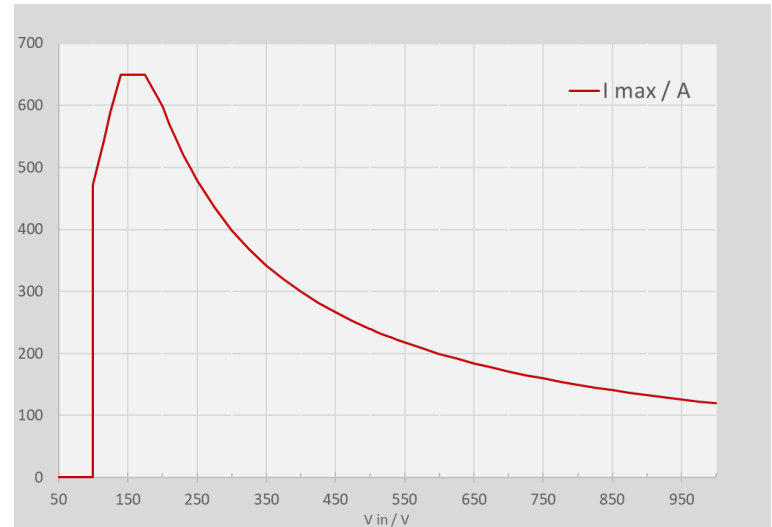
MLoad 120 / 650



Variant	Current Range	Voltage Range	Power	Energy	Aux-Supply	Environment	Size (w x h x d)	Car fitting
MLoad 120	400 A _{nom} / 650 A @ 5 min	100 – 1000 V	45 kW _{nom} / 120 kW @ 2 min	4,5 kWh each measurement / 7 min cooldown	230 VAC / 4 A (powerblock)	-10°C – 40°C / IP 54	115 x 110 x 140 cm / 420 kg	VW Caddy, MB Citan, etc.

Compact system for 650 A min/max measurement

Current range	400 A _{nom} / 650 A @ 5 min
Voltage range	100 – 1000 V
Power	45 kW _{nom} / 120 kW @ 2 min
Energy	4,5 kWh each measurement / 7 min cooldown
Aux-supply	230 VAC / 4 A (powerblock)
Environment	-10°C – 40°C / IP 54
Size (w x h x d)	115 x 110 x 140 cm / 420 kg
Car fitting	VW Caddy, MB Citan, etc.

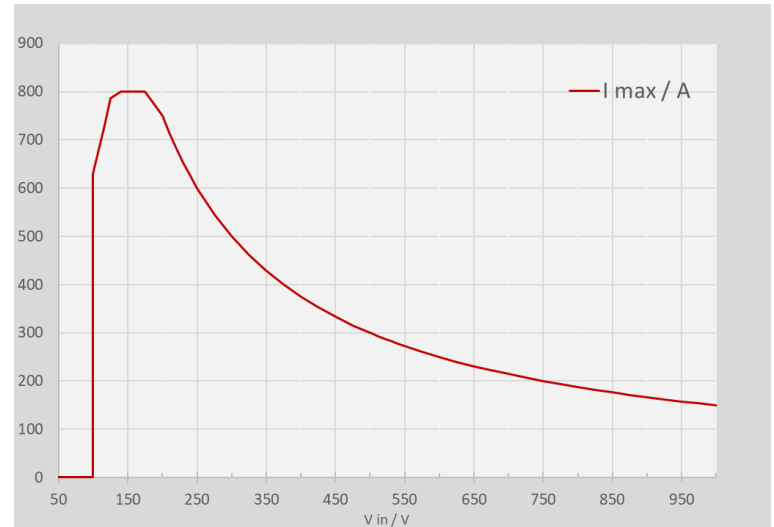


MLoad 150 / 800



Compact system for 800 A min/max measurement

Current range	500 A _{nom} / 800 A @ 5 min
Voltage range	100 – 1000 V
Power	60 kW _{nom} / 150 kW @ 2 min
Energy	6 kWh each measurement / 7 min cooldown
Aux-supply	230 VAC / 5 A (powerblock)
Environment	-10°C – 40°C / IP 54
Size (w x h x d)	150 x 123 x 190 cm / 480 kg
Car fitting	MB Vito, Opel Vivaro, etc.

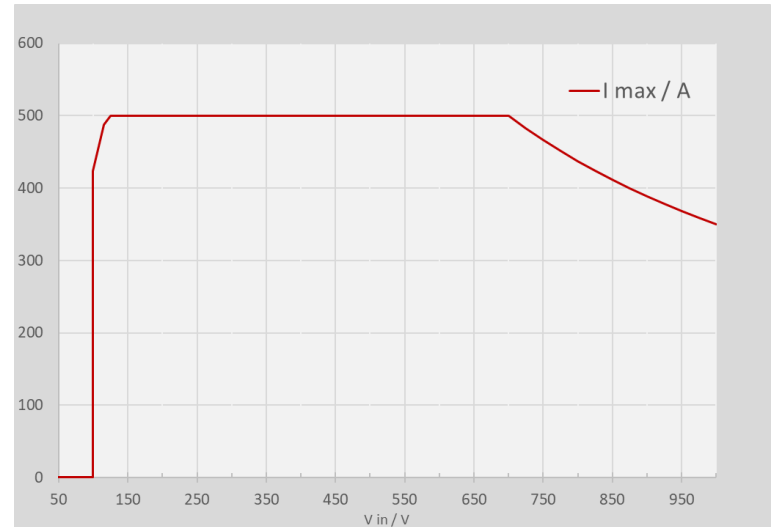


MLoad 350 / 500

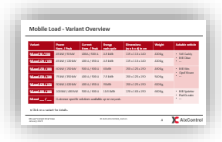


Testsystem with 350 kW operating range

Current range	400 A _{nom} / 500 A @ 15 min
Voltage range	100 – 1000 V
Power	75 kW _{nom} / 350 kW @ 1 min
Energy	7.5 kWh each measurement / 7 min cooldown
Aux-supply	230 VAC / 6 A (powerblock)
Environment	-10°C – 40°C / IP 54
Size (w x h x d)	150 x 123 x 190 cm / 540 kg
Car fitting	MB Vito, Opel Vivaro, etc.

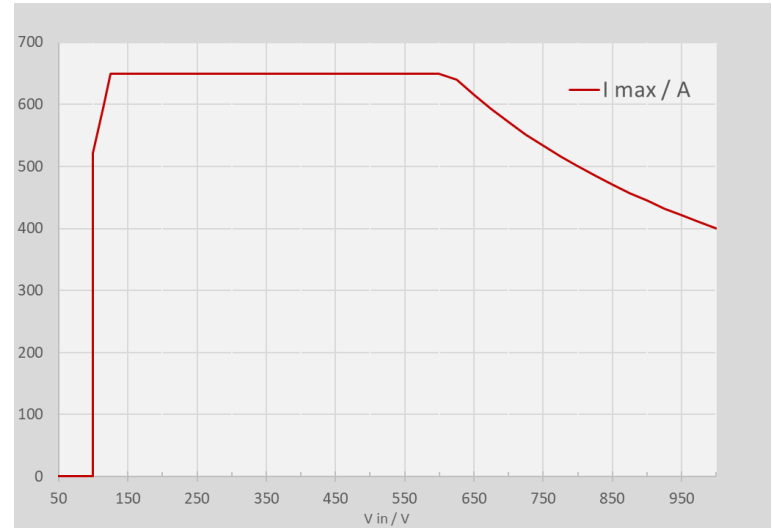


MLoad 420 / 650



Testsystem with 420 kW operating range

Current range	400 A _{nom} / 650 A @ 5 min
Voltage range	100 – 1000 V
Power	90 kW _{nom} / 420 kW @ 1 min
Energy	9 kWh each measurement / 7 min cooldown
Aux-supply	230 VAC / 7 A (powerblock)
Environment	-10°C – 40°C / IP 54
Size (w x h x d)	150 x 123 x 190 cm / 600 kg
Car fitting	MB Vito, Opel Vivaro, etc.



MLoad 480 / 800



Testsystem with 480 kW operating range

Current range	500 A _{nom} / 800 A @ 5 min
Voltage range	100 – 1000 V
Power	100 kW _{nom} / 480 kW @ 1 min
Energy	10.5 kWh each measurement / 7 min cooldown
Aux-supply	230 VAC / 8 A (powerblock)
Environment	-10°C – 40°C / IP 54
Size (w x h x d)	170 x 160 x 190 cm / 660 kg
Car fitting	MB Springer, Fiat Ducato, etc.

