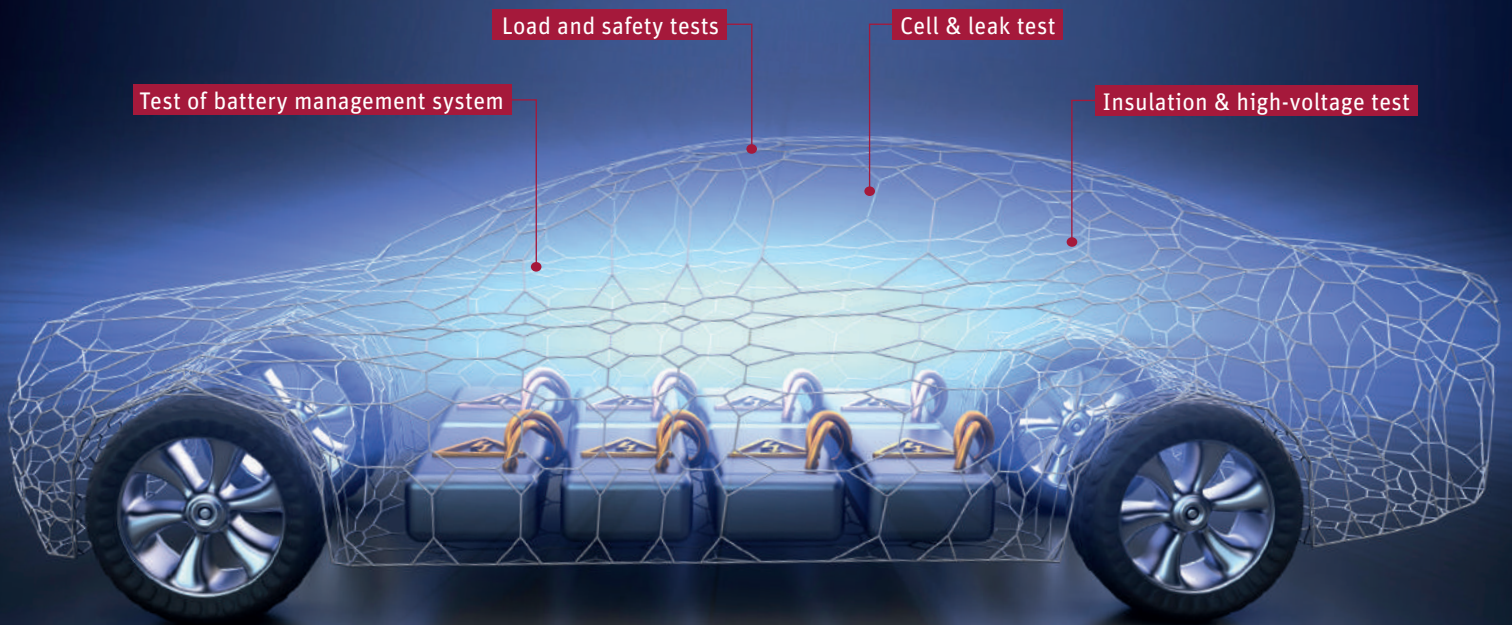


BERGHOF PROCESS MANAGEMENT

High-voltage battery test in the automobile industry



BERGHOF



Test station for high-voltage battery

Technical Data	min	max
Voltage	200 V	1000 V
Power	60 kW	500 kW
Current	400 A	1000 A
Nominal data AC input	min	max
Rated capacity	400 V/480 V	
Grid connection	3 / PE	
AC input voltage tolerance	± 10 %	
Frequency	50 Hz / 60 Hz	
Frequency tolerance	± 5 %	
Max. power consumption	67 kVA	530 kVA
Power factor λ (at rated power)	> 0,99 ind.	
Input current max. (rated voltage 400 V - 10% and DC current max.)	108 A	850 A
Input current max. (rated voltage 480 V - 10% and DC current max.)	90 A	708 A
Recommended pre fuse (rated voltage 400 V)	3x gL/gG 125 A	3x gL/gG 1000 A
Recommended pre fuse (rated voltage 480 V)	3x gL/gG 100 A	3x gL/gG 800 A
Recommend. cable cross section (rated voltage 400 V)	3x 50 mm ² / Ph 25 mm ² / PE	2x 3x 240 mm ² / Ph 2x 120 mm ² / PE
Recommend. cable cross section (rated voltage 480 V)	3x 35 mm ² / Ph 16 mm ² / PE	2x 3x 185 mm ² / Ph 2x 95 mm ² / PE
Connection for cable lug	M8	M12
Nominal data DC output	min	max
Output power	60 kW	500 kW
Output voltage	5 - 200 V	5 - 1000 V
Output current	± 200 A	± 1000 A
Current rise time 10% - 90%	< 1 ms	< 1,3 ms
Recommended cable cross section	1x 150 mm ² / Pol 1x 70 mm ² / PE	4x 150 mm ² / Pol 2x 150 mm ² / PE
Connection for cable lug	M10	M10
Rated data Total system	min	max
Efficiency under full load at max. voltage	92,6%	96,6%
at max. current	90,0%	95,3%
Max. power loss	6,7 kW	24,7 kW
Noise level (full load, @ 1m) at max. current	65,0 dB(A)	80,0 dB(A)

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