

System Engineering
for the automotive industry

End of Line test

for battery



thyssenkrupp





Your powerful partner for battery testing

thyssenkrupp System Engineering delivers End of Line test equipment for battery pack function testing. Our standardized testing solutions are already equipped with units for:

- CAN communication with battery controller
- Isolation test and hipot testing
- Integrated battery cyclers unit
- Necessary functions to run your battery

The combination of our own hardware and test facility software means we are able to attain the best possible cycle times. These can be tailored to the customer's very own needs – something which is valued most by our customers. We call it the "all-in-one software concept" because all measuring capabilities, components and residual bus simulation required (in real-time via the CAN bus) are integrated in the test software. From manual loading and manual electrical connections up to full automatic test equipment. From small server and data handling solutions up to synchronized test software for several parallel test benches. That is why we are your partner to find a solution mating to your production plans.

Being a partner of the automotive industry with more than

800

production test stands
for combustion engines
and transmissions

„We are pleased that our globally already well-known and acclaimed test stands and test software have now been established in the new field of battery technology.“

Christoph Stratmann,
thyssenkrupp System Engineering

Experienced supplier of series test systems

Cycler Unit for Battery EOL (CUBE)					
	book-size	book-size	chassis-size	chassis-size	chassis-size
Label	Sy-CUBE100	Sy-CUBE200	Sy-CUBE300	Sy-CUBE400	Sy-CUBE600
Classification	± 100 A	± 200 A	± 300 A	± 400 A	± 600 A
Output current (DC)	± 85 A	± 200 A	± 270 A	± 380 A	± 420 A
Overload for 30sec every 5min	± 110 A	± 240 A	± 300 A	± 450 A	± 600 A
Overload for 10sec every 5min	± 140 A	± 280 A	± 350 A	± 500 A	± 700 A
Max. losses at rated current	3 KW	6 KW	10 KW	14 KW	18 KW
Output power	46 KW	107 KW	150 KW	230 KW	290 KW
Size of electrical cabinets					
Width	1200 mm	1800 mm	3600 mm	3600 mm	3600 mm
Depth	600 mm	600 mm	800 mm	800 mm	800 mm
Height	2000 mm	2000 mm	2000 mm	2000 mm	2000 mm
base	200 mm	200 mm	200 mm	200 mm	200 mm
weight	650 Kg	850 Kg	1650 Kg	1850 Kg	2450 Kg
book-size & chassis-size (for all labels and classifications)					
Output voltage	30-600 V DC				
Current dynamics I0- Imax	< 10 ms				
Current measuring accuracy	< 0,1% fs				
Voltage measuring accuracy	< 0,1% fs				
Voltage ripple	< 0,5% fs eff.				
Current ripple	< 0,5% fs eff.				
Noise	< 70 db				
Environmental temperature	10 to +40 °C				
Short circuit proof	Yes, up to max. current				
EMC	EN 61000-6-2/EN 61000-6-4/EN 61800-3				
Cooling	Air-air-heat exchanger on door				
Network	(international)				
Input Voltage	380V- 480V AC ± 10%				
Input Frequency	50 (60) Hz				
Color	RAL 7035				
Protection class	IP54				
interfaces	Profinet/UPS32 UPS64				
Performance level	PLd ISO 13849-1/EN60204-1				

Automotive Technology
System Engineering

systemengineering@thyssenkrupp.com
www.thyssenkrupp-system-engineering.com

engineering.tomorrow.together.