

## **CxW Custom Battery**

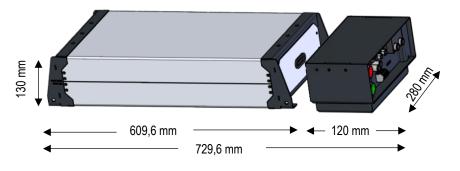
Ref. BB SB 48-90 Typ2210

Parameter	Value		Comment						
Cell type	NMC Energy		Before any P.O. please confirm current discharge/charge profiles S-Box could be provided separately from Battery Block						
Nominal Voltage		48,10 V	Average voltage of the battery system						
Maximum Voltage	53,30 V		End of charge voltage of the battery system						
Minimum Voltage	39,00 V		End of discharge voltage of the battery system						
William Voltage									
Energy content	4,33 kWh		Nominal energy content						
Capacity	90,00 Ah		Nominal capacity						
Maximum admissible	Max. workload		Workload		Workload		Workload		
current	24-min continuous		60-min continuous		120-min continuous		240-min continuous		
Continuous Charge	1,5 C	135 A	1,0 C	90 A	1,0 C	90 A	1,0 C	90 A	
Continuous Discharge	2,5 C	225 A	1,0 C	90 A	0,50 C	45 A	0,25 C	23 A	
Peak Discharge (10s max)	3 C	270 A	3 C	270 A	3 C	270 A	3 C	270 A	
Cooling accessories	Required		Probably required (see below comment)		Likely not required (see below comment)		Not required		
	Cooling requirements depend on load profile and ambient conditions: they may add weight, size and costs Any idle time added to a/m continous workload profiles reduces cooling requirements Detailed AGV load profile will be required for proper battery validation								
Lifecycle	4 000 cycles at 80% Depth of Discharge (2 500 cycles at 100% DoD)								
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Length	730 mm <b>610 mm</b>		Battery Block with S-Box (S-Box can be installed separately)						
Width	280 mm		Battery Block alone (without S-Box)						
Height	130 mm								
Weight		33 kg	Battery Block alone (+6 kg for one S-Box in total)						
Configuration	13S3P 39 cells Block configuration and number of cells								

## **Mechanical Design**

(not to scale)

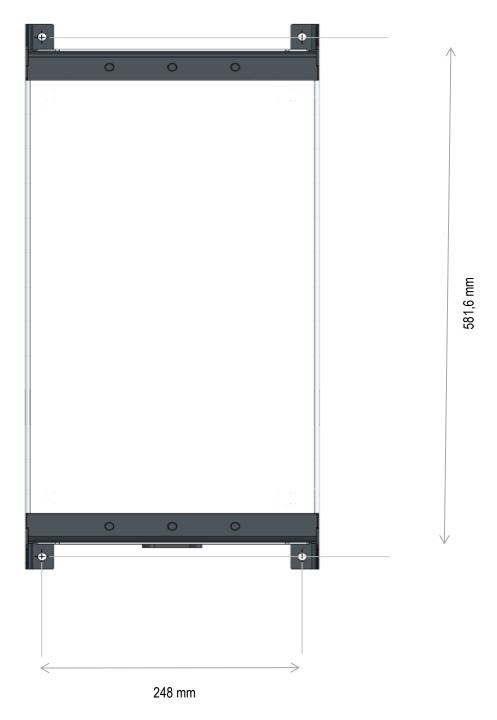
CxW - 13s3p - NMC Energy



S-Box (BMS) can be mounted separately from battery blocks



## **Fixing Points**



Drawing is not to scale