CxW Custom Battery

Ref. **BB SB 48-120 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**

Parameter	Value	Comment
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

Parameter	Value	Comment
Energy content	5,77 kWh	Nominal energy content
Capacity	**120,00 Ah**	Nominal capacity

Maximum admissible current	Max. workload 24-min continuous		Workload 60-min continuous		Workload 120-min continuous		Workload 240-min continuous	
Continuous Charge	1,5 C	180 A	1,0 C	120 A	1,0 C	120 A	1,0 C	120 A
Continuous Discharge	2,5 C	300 A	1,0 C	120 A	0,50 C	60 A	0,25 C	30 A
Peak Discharge (10s max)	3 C	360 A	3 C	360 A	3 C	360 A	3 C	360 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**

Parameter	Value	Comment
Lifecycle	4 000 cycles	at 80% Depth of Discharge (2 500 cycles at 100% DoD)

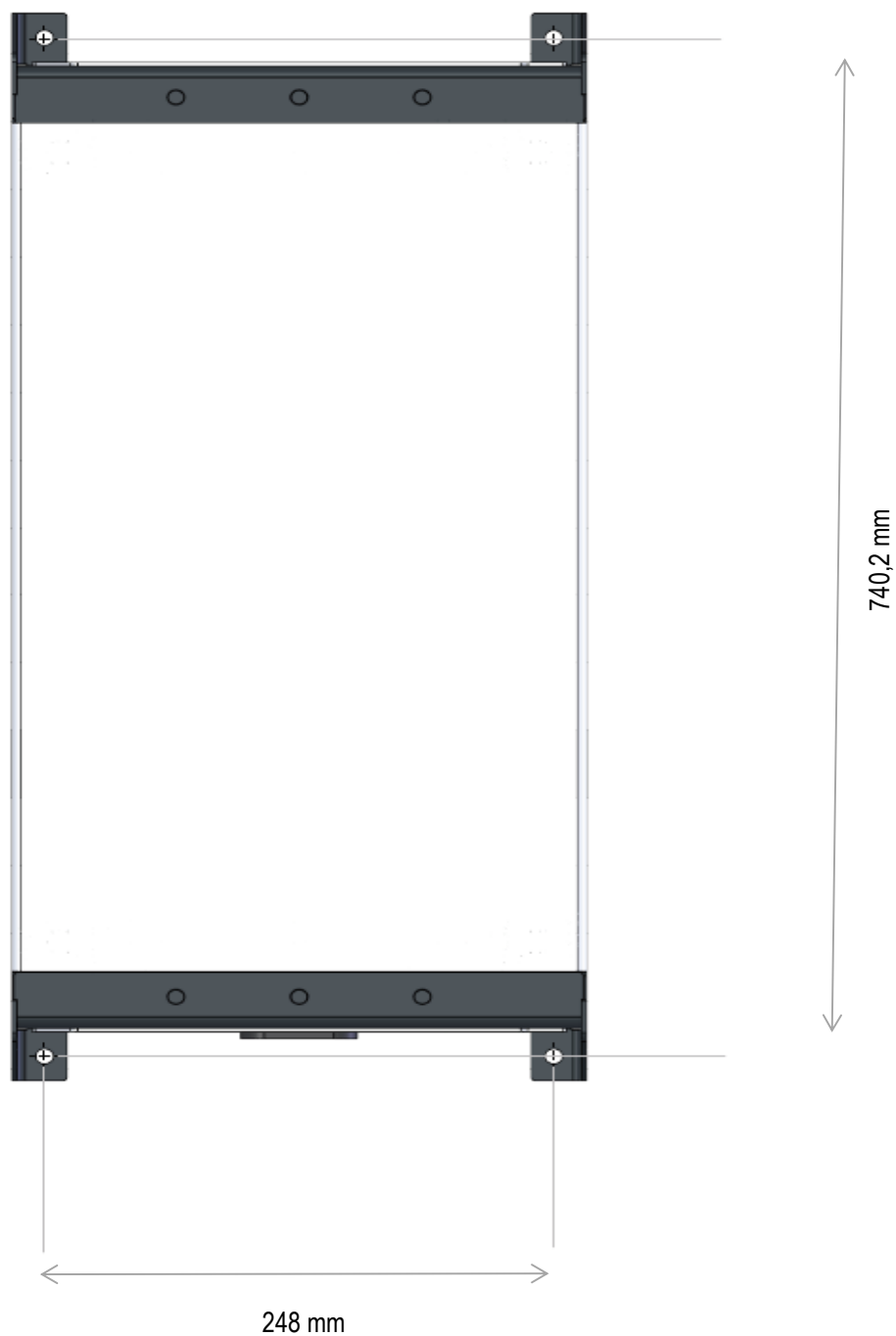| Parameter	Value	Comment
Length	888 mm	Battery Block with S-Box (S-Box can be installed separately)
	768 mm	Battery Block alone (without S-Box)
Width	**280 mm**	
Height	**130 mm**	
Weight	42 kg	Battery Block alone (+6 kg for one S-Box in total)
Configuration	**13S4P** **52 cells**	Block configuration and number of cells

Mechanical Design
(not to scale)

CxW - 13s4p - NMC Energy
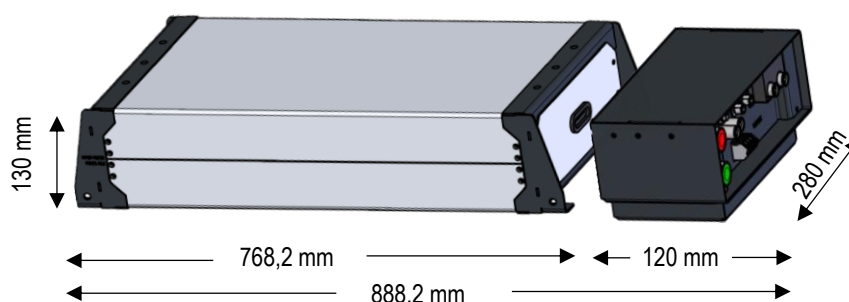
S-Box (BMS) can be mounted separately from battery blocks

Fixing Points

740,2 mm

248 mm

Drawing is not to scale