

CxW Custom Battery

Ref. BB SB 48-60 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						
Energy content	2,89 kWh		Nominal energy content						
Capacity	6	٥,00 Ah	Nominal capacity						
Maximum admissible	24-min continuous		60-min continuous		120-min continuous		240-min continuous		
Continuous Charge	1.5 C	90 A	1.0 C	60 A	1.0 C	60 A	1.0 C	60 A	
Continuous Discharge	2.5 C	150 A	1.0 C	60 A	0.50 C	30 A	0.25 C	15 A	
Peak Discharge (10s max)	3 C	180 A	3 C	180 A	3 C	180 A	3 C	180 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)								
	571 mm		Battery Block with S-Box (S-Box can be installed separately)						
Length	451 mm		Battery Block alone (without S-Box)						
Width	280 mm								
Height		130 mm							
Weight		23 kg	Battery Block alone (+6 kg for one S-Box in total)						
Configuration		13S2P 26 cells	Block co	Block configuration and number of cells					

Mechanical Design

(not to scale)

CxW - 13s2p - NMC Energy



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



Fixing Points



Drawing is not to scale