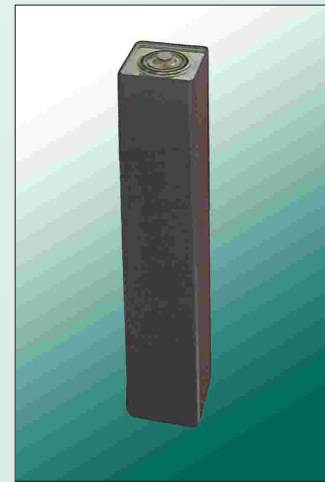


*Zebra Batteries are designed for electric and hybrid vehicles.
They use salt and nickel for electrode materials with a ceramic electrolyte.*

Technical data _____ **ZEBRA® Battery** _____
Type Smart _____ **Z21** _____

Z21-310-ML8X-50
Id. No. 30x00088

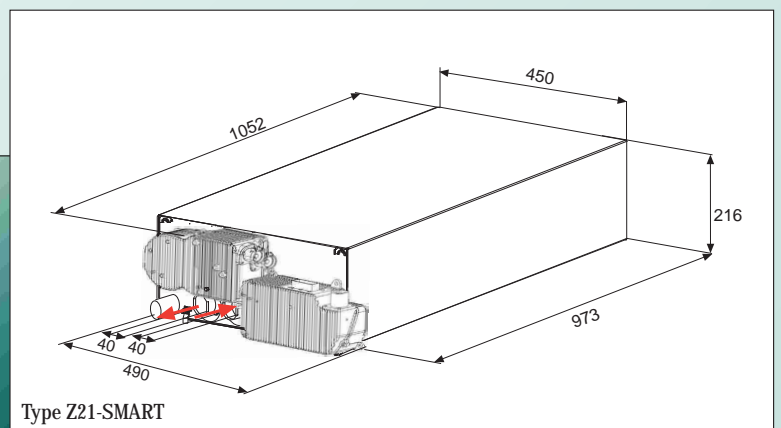
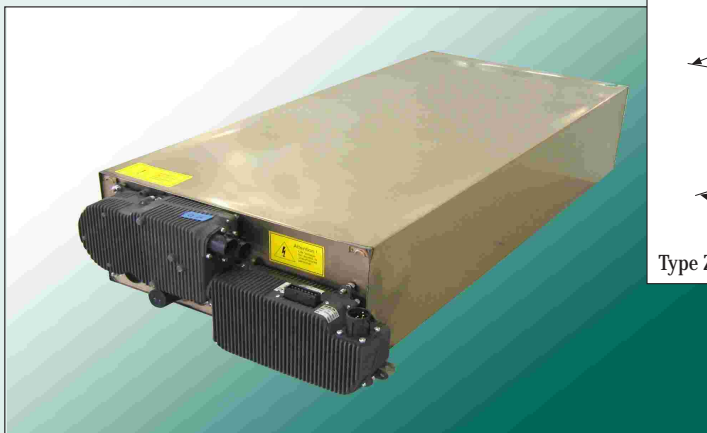
	<i>unit</i>	
Capacity	Ah	50
Rated Energy	kWh	15.5
Open circuit voltage		
0 - 15% DOD	V	310
Max. regen. voltage	V	372
Min. op. voltage	V	206
Max. discharge current	A	175
Cell Type / N° of cells		ML8X / 240
Weight with BMI	kg	142
Specific energy without BMI	Wh/kg	112
Energy density without BMI	Wh/l	168
Energy 2 h discharge	kWh	14
Specific power	W/kg	171
Power density	W/l	257
Peak power	kW	24
80% DOD, 2/3 OCV, 30s, 335°C		
Ambient temperature	°C	-40 to +50
Thermal loss	W	< 115
at 270°C internal temperature		
Cooling		air
Heating time	h	24 h at 230 VAC
Periphery		BMI, Fan



ZEBRA® Cell

System design recommendation:

- MES-DEA Charger
- Min. discharging time: 120 min.
- Max. degree of discharge: 80%



Type Z21-SMART

The information contained herewith is subject to change without notice

