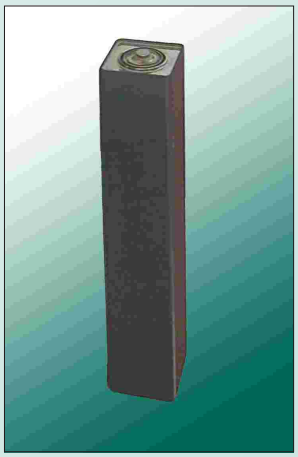
ZEBRA Batteries

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 _____

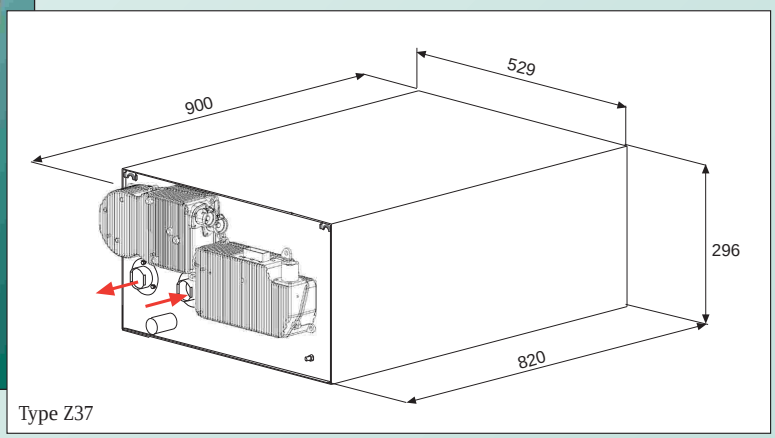
Type **Z37**

		Z37-310-ML3X-64	Z37-620-ML3X-32	Z37-310-ML3X-76
	Id.	*30x00167*	*30x00153*	*30x00268*
	unit			
Capacity	Ah	64	32	76
Rated Energy	kWh	19.8	19.8	23.5
Open circuit voltage				
0 - 15% DOD	V	310	619	310
Max. regen. voltage	V	348	696	372
Min. op. voltage	V	206	413	206
Max. discharge current	A	224	112	224
Cell Type / N° of cells		ML3X / 240		ML3X/240
Weight with BMI	kg	201		201
Specific energy without BMI	Wh/kg	101		119
Energy density without BMI	Wh/l	154		183
Energy 2 h discharge	kWh	18		20
Specific power	W/kg	171		170
Power density	W/l	261		261
Peak power	kW	35.5 DOD 80%		33.5 DOD 70%
2/3 OCV, 30s,335°C				
Abient temperature	°C	-40 to +50		
Thermal loss	W	< 105		
at 270°C internal temperature				
Cooling		air		
Heating time	h	24 h at 230 VAC		
Periphery		BMI, Fan		
		HEV Application		EV Application
On board generator				
MAX voltage, up to 70%SOC	V/Cell	2.7		n.a.



ZEBRA® Cell

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



Type Z37

ELEKTRA
Components for Electric Vehicles
Via Laveggio, 15 CH - 6855 Stabio - Switzerland
TEL: +41 (0)91 6415311 FAX: +41(0)91 6415333 E-mail: info@mes-dea.ch internet: http:// www.mes-dea.ch

Rev 11 del 25/03/08
Zebra Z37

ZEBRA