v

Yes

					-										
								EC1000	EC2100	HB15/EB15	EC20	EC25	ST	Other br	ands
					Cor	nsumption in m	A	15	18	20	30	35	15	40	50
Art.Nr	Туре	Price	Tension	Energy	Capacity	Weigth	Shape	PERSISTENCE IN DAYS							
		Incl. VAT	Volt	Wh	Ah										
163-45505	Alkaline	22,95	9,0	380	55	1,35	Small	117	97	87	58	50	х	32	26
163-45522	Alkaline	29,95	9,0	570	75	1,82	Small	176	147	132	88	75	х	66	53
163-45515	Alkaline	27,95	9,0	540	65	1,75	Small	166	138	125	83	71	х	54	43
163-45524	Alkaline	39,95	9,0	900	120	2,27	Small	278	231	208	139	119	х	104	83
163-45527	Alkaline	49,95	9.0	1400	175	3,20	Large	432	x	x	216	185	x	162	129
163-45534	Alkaline	49,95	9,0	1250	160	2,67	Small	385	321	289	192	165	х	145	116
163-45532	Alkaline	59,95	9,0	1500	200	4,26	Large	463	386	x	231	198	х	174	139
163-45525	Alkaline	38,95	12,0	690	60	2,32	Small	x	133	119	80	68	x	60	48
163-45533	Alkaline	54,95	12,0	1380	120	4,45	Large	x	266	х	160	137	x	120	96
163-45501	Alkaline	32,95	6,0	510	100	1,70	Round	x	x	x	х	х	236	x	х
						Suitable for 12 \	/olt car battery	No	Yes	Yes	Yes	Yes	No	?	?
In case of using a car battery, the following accessories are available:															
				152-80017 Simple battery connection kit				х	Yes	Yes	Yes	Yes	No	Yes	Yes

	~	100	100	100	100	110	100	
162-60000 Battery connection kit with charge indication	х	Yes	Yes	Yes	Yes	No	Yes	Y

For the energy supply of fencers we use mains, car batteries, solar units or dry cell batteries. If there is no mains available, energy supply by a dry cell battery is common use. Low cost and easy to transport. There are two types of dry cell batteries, saline and alkaline batteries. Both are air-oxygen batteries, they need oxygen out of the air to maintain a chemical reaction to produce the energy.

DIFFERENCES BETWEEN ALKALINE AND SALINE

Both types are free of mercury and cadmium and therefore environmental friendly, if it is disposed after usage at a offical disposal point. It is not allowed to dispose the batteries with consumer- or company garbage.

ADVANTAGE OF ALKALINE BATTERIES

• The most important advantage is the output tension. Alkaline batteries give a stable tension during the usage period. The tension of saline batteries drops from 8,4 Volt to 5,5 Volt (picture below). With a decreasing battery tension –which is the case for all saline batteries-, the fencer will take up more electrical current to maintain the declared output energy and this will result in accelerated battery discharge.

• The cathode and anode in an alkaline battery are much more efficient. This results in less material for the same capacity compared to saline batteries. Alkaline batteries weight therefore ca half less then saline batteries and are smaller. Due to this, less garbage is produced, also the transport costs are lower and the future disposal costs will be lower.

• The electrolyte of alkaline batteries contains less water than saline batteries, due to that alkaline batteries function better at lower temperatures.

• With a decreasing battery tension a fencer will use more energy to maintain the energy output. At a lower battery tension the internal resistance increases, due to that the energy uptake will increase accordingly. Alkaline batteries have due to an equal tension a lower energy use against saline batteries.

Advantages of alkaline against saline:

3. Performs better at lower temperatures

1. Voltage stays the same

4. Consumption is lower

2. Less raw material, less weight

DIMENSIONS



KOLTEC TIP

Choose a battery which fits to the desired life time. The higher the energy content / capacity, the lower the daily usage costs.

CAUTION!!:

Weeds / grass growth against the fence and conductors on the ground have a negative influence on the life time of the battery!

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EXPLANATION ABOUT BATTERIES

BATTERY LIFE TIME

To give a better indication how long a battery works, Koltec changes the capacity indication from Ah into Wh. This stands for Watt hour. This is the energy of the battery, the higher the Wh, the higher the energy content, the longer a fencer works on this battery.

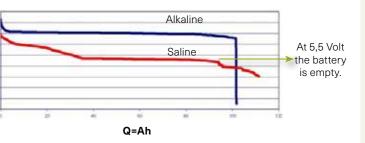
EXAMPLE CALCULATION:

- Consumption of the fencer: 30 mA.
- Average battery tension (alkaline): 8,5 Volt.
- Energy consumption of the device: 30/1000 * 8,5 = 0,255 Wh

75 Ah Alkaline battery contains 570 Wh.

Usage time of the device with this battery: 570 / 0,255 = 2235 hour = 93 days.

TENSION CURVE OF ALKALINE AGAINST SALINE:



Batteries with the same capacity (100 Ah):

Battery	Weight	Energy (Wh)	Energy eff. Wh/Kg
Alkaline	2,3 kg	800	347
Saline	4,4 kg	600	136
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