## **HONG KONG BATTERIES MANUFACTORY LIMITED** 香港電池工業有限公司 7 Flat, 10F, Kam Hon Industrial Bldg, 8 Wang Kwung Road, KowloonBay, Kowloon, Hong Kong, China Tel: (852) 27988548-10 lines Fax: (852) 27980321 Email: <u>sales@hk-batteries.com</u> Web site: <u>www.hk-batteries.com</u>



### **RE: Handle the Rechargeable Batteries Become Further Longest Life.**

Each battery has unique needs that must be met to obtain reliable service and long life. The Do and don't battery table summarizes these needs and advises proper handling of each battery type.

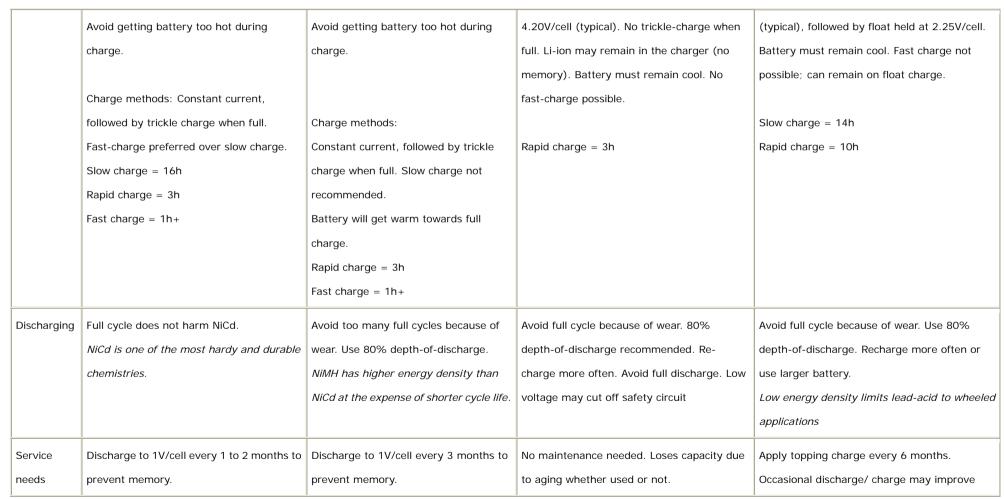
Optimal handling may not always be practical in real life. Deviations from the ideal are acceptable but will lower the life expectancy of the battery to some degree. Exposure to heat may be the larger deterrent.

-	Nickel-cadmium	Nickel-metal-hydride (NiMH)	Lithium-ion	Lead-acid
	(NiCd)		(Li-ion)	(Sealed or flooded)
Used in	Two-way radios, power tools, medical.	Similar application as NiCd; higher density.	Cell phones, laptops, video cameras.	Motorcycles, cars, wheelchairs, UPS.
Charging	Do run the battery fully down once per	Do run the battery fully down once	Do charge the battery often. The battery lasts	Do charge the battery immediately after use.
	month; try to use up all energy before	every 3 months. Over-cycling is not	longer with partial rather than full discharges.	Lead-acid must always be kept in a charged
	charging.	advised.		condition. The battery lasts longer with partial
			Do not use if pack gets hot during charge.	rather than full discharges. Over-cycling is not
	Do not leave battery in charger for more	Do not leave battery in charger for more	Check also charger.	advised.
	than 2 days because of memory.	than 2 days because of memory.		
			Charge methods: Constant voltage to	Charge methods: Constant voltage to 2.40/cell

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	Do not discharge before each charge.	Do not discharge before each charge		performance.
Storage	Best to store at 40% charge in a cool place.	Store at 40% charge in a cool place.	Store at 40% charge in a cool place (40%	Store always at a full state-of-charge. Do not
	Open terminal voltage cannot determine	Open terminal voltage cannot	state-of-charge reads 3.75-3.80V/cell at	store below 2.10V/cell; apply topping charge
	state-of-charge. 5 years and longer	determine state-of-charge. Prime	open terminal.	very 6 months.
	storage possible. Prime battery if stored	battery if stored longer than 6 months.	Do not store at full charge and at warm	
	longer than 6 months.		temperatures because of accelerated aging.	
Disposal	Do not dispose; contains toxic metals;	Should be recycled. Low volume	Should be recycled. Low volume household	Do not dispose; must be recycled.
	must be recycled.	household NiMH may be disposed.	Li-ion may be disposed	

To contact our professional Team: <u>hkbatt@hk-batteries.com</u> (Mr. Thomas To) for the detail.