



CHARGING METHODS - CONTINUED

Charging methods and applications of SLA batteries

Application / Charging Method	Normal charging in 6 or more hours; Constant voltage control	Two steps constant voltage control	Constant current control
Cycle use	Control voltage: 7.25 to 7.45V /6V battery 14.5 to 14.9V/12V battery Initial current: 0.4CA or smaller		
Trickle use	Control voltage: 6.8 to 6.9V/6V battery 13.6 to 13.8V/12V battery	Initial charging with current of approx. 0.15CA, followed by switching voltage to trickle charge	
Float use	Control voltage 6.8 to 6.9V/6V battery 13.6 to 13.8V/12V battery Float charging compensates for load fluctuations.		
Refresh charge (Auxiliary charge)*	When charging two or more batteries at a time, select only those which have been left under the same condition.		Charging with current of approx. 0.1CA
Application example	General uses, Cellular phones (bag phones), UPS, Lanterns, Electric tools	Medical equipment, Personal radios	

Note * Refresh (auxiliary) charge amount should be 120 to 130% of self-discharge amount. For details, please contact us.

(Precautions on charging)

- (A)in constant voltage charging (cycle use): Initial current should be 0.3CA or smaller (C: rated capacity)
- (B)in V-taper charge control system: Initial current should be 0.6CA or smaller (C: rated capacity)
- (C)in constant voltage charging (trickle use): Initial current should be 0.15CA or smaller (C: rated capacity)

- Relation between standard voltage value in constant voltage charging and temperature is give in the table.

Relation between standard voltage value in constant voltage charging and temperature

		0°C	25°C	40°C
Cycle use	4V	5.1	4.9	4.7
	6V	7.7	7.4	7.1
	8V	10.2	9.8	9.5
	12V	15.4	14.7	14.2
Trickle use	4V	4.7	4.6	4.5
	6V	7.1	6.8	6.7
	8V	9.4	9.1	8.9
	12V	14.1	13.7	13.4



[Back to MainPage](#)

[Pre](#) [Next](#)

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