with excessive voltage
arging
lischarging with excessive current
ag to protection working voltage
erature out of the recommended
of secondary, Lithium-ion batteries

will reduce cycle ille.

memory effect.

on diachanca

tors affecting for Cycle Life ttery Cycle Life Reduction is determined mainly by the electrolyte causing a rise in internal decline of reversibility of electrode

of phenomena are accelerated when the conditions recommended by maintained.

rature
oure is one of the factors that make
cycle life of Lithium-ion battery.
nendation is 0-40deg.C for charge

discharge. However, in practical use, most case is shallow charge-discharge. Lithium-ion battery has no memory effect like Ni-Cd and Ni-MH.

Then, let us explain about shallow charge-discharge cycle characteristics. In a case of, for example, a experimental regular cycle of full charge 50% discharge cycle, the cycle life is about twice as long as normal full cycle. This is shown in fig.3-13.

Fig.3-13: Cycle Characteristics (Depth of Discharge)

