

Applicable for CP1654, CP1454, CP1254

The CoinPower A3-Version can be charged with different charging rates and procedures. In order to find the best solution for the various applications please see the different options below. For more information please consult your Key Account Manager or the contact information in the foot line of this document.

1. Standard Charging

The CoinPower A3-Version can be **standard charged** with a maximum **C-Rate of 0.5C** over the entire temperature range between 0°C and 45°C. The charging procedure must be Constant-Current Constant-Voltage (CCCV).

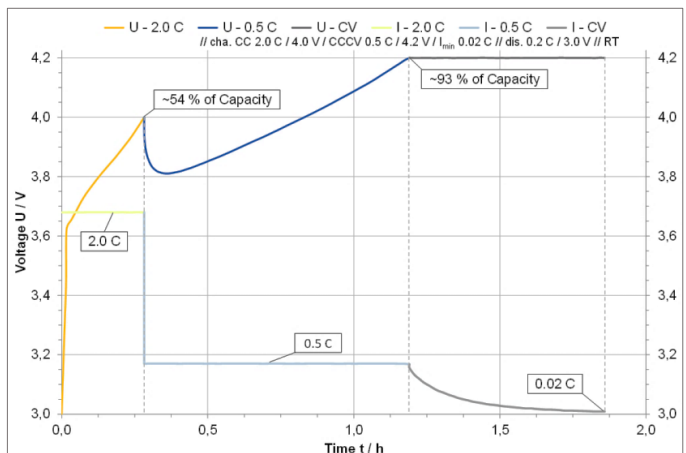
2. Fast Charging

The CoinPower A3-Version can be **fast charged** with a maximum **C-Rate of 1C** over the entire temperature range between 0°C and 45°C. The charging procedure must be Constant-Current Constant-Voltage (CCCV). For this charging procedure the performance stated in the datasheet regarding capacity and cycle life may decrease.

3. Rapid Charging

Furthermore the A3-Version can be **rapid charged with a two-step procedure**:

A charging rate of 2C can be applied up to max. 4.0V, then continue with standard rate of 0.5C or Fast rate of 1C until 4.2V. The charging voltages should be controlled within tolerances of ± 50 mV. The charging procedure must be Constant-Current Constant-Voltage (CCCV) as well. The temperature range for the CC phase at **2C rate must be between 15°C and 45°C**. For this charging procedure the performance stated in the datasheet regarding capacity and cycle life may decrease.



4. Charging Procedures Comparison

An overview about the different charging procedures with the related time and charged capacity can be found in the table below.

Charged Capacity	Standard Charge (0.5C)	Fast Charge (1C)	Rapid Charge (2C // 4.0V - 0.5C // 4.2V)
25%	35 min	15 min	08 min
50%	65 min	30 min	15 min
75%	95 min	45 min	50 min
100%	165 min	105 min	100 min

Data may vary due to temperature, age of cell and accuracy of voltage and current.

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