Datasheet

Coulomb Counter / Battery monitoring

CC75
CC150
CC500

CC 75/150/500 is a high precision coulomb counter (capacity tester) device for monitoring the voltage (V), capacity (Ah), power (W) and energy of a battery. These information allow the user to obtain a precise state of charge in % (SoC) or Depth of Discharge (DoD) of the battery. It also calculates in real time remaining time before battery gets fully empty.

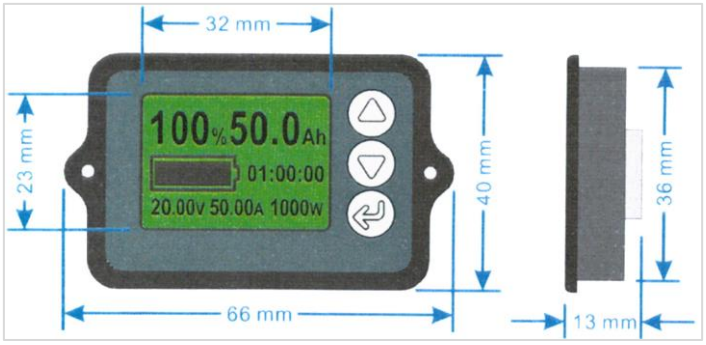
CC device has a memory feature to save SoC information when the device is powered off or accidentally disconnected.

CC 75/150/500 is suitable for lithium iron Phosphate (LiFePO4), Lithium ion and Li-Polymer batteries, lead acid and nickel metal hybrid batteries with a working voltage from **8V to 80V DC**.

It exists in 3 versions:

- CC75, measurement from 0 to 75A, compatible with M6 terminals
- CC150, measurement from 0 to 150A, compatible with M8 terminals
- CC500, measurement from 0 to 500A, compatible with M10 terminals

1. Display dimensions



2. Display functions

- State of Charge (%)
- Remaining capacity (Ah)
- Remaining Time (HH : MN : SS)

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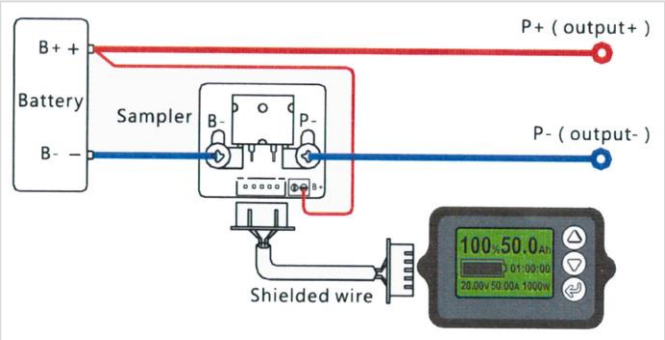
- Instant Power (W)
- Instant current (A)
- Instant voltage (V)
- Graphic view of the battery State of Charge (SoC)

3. Installation

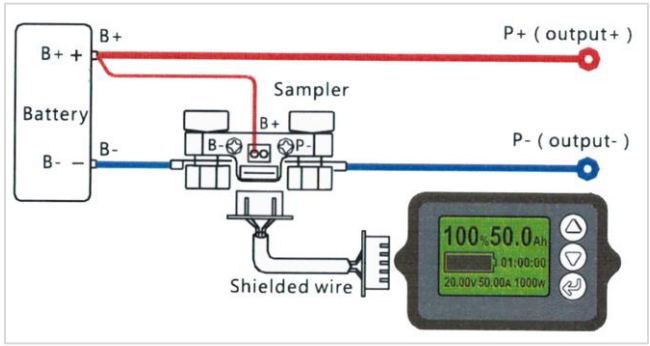
Connection (provided) is done by using 2 wires:

- Shield wire will connect display to the precision resistance (sampler). This wire will be plugged with 5 pole connectors on both sampler and display.

- Low power wire (0.3 – 0.75mm²) to connect sampler to battery positive pole (red). This wire will be connected on one of the 2 poles of the connector located on the sampler (marked B+). The other end of this wire needs to be connected on the battery positive pole.



Connection diagram for CC-75



Connection diagram for CC-150 or CC-500

Shielded cable lengths available: 1m, 3m or 5m.

4. Main parameters

Parameter	Min	Nominal	Max	Unit
Working voltage	8.0	50.0	80.0	V
Working consumption (Backlight ON)		6,0		mA
Standby consumption (Backlight OFF)		0.7		mA
Voltage accuracy		± 1.0		%
Current accuracy		± 1.0		%
Capacity accuracy		± 1.0		%
Preset capacity value	0.1		999.9	Ah
CC75 measurement range	0.0	50.0	75.0	A
CC150 measurement range	0.0	100.0	150.0	A
CC500 measurement range	0.0	350.0	500.0	A
Display temperature range	-10°C	25	50	°C
Display Weight		20		g
Display dimensions		66 x 40 x 13		mm