



E J technology EJ-FG05V High Precision Current Type Battery Capacity Tester Instructions

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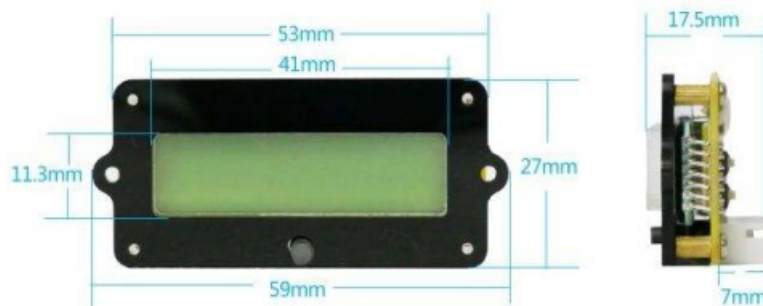
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E J technology EJ-FG05V High Precision Current Type Battery Capacity Tester



Sketch



Product overviews

- FG05V is a kind of high precision current type battery capacity tester also known as coulometer . It is designed to test the voltage, current, and capacity of the battery and help users know the state of the battery in time. FG05V is suitable for instruments, measuring equipment, cleaning machines, balance cars, battery cars, e-bikes and so on.

Application

- FG05V is suitable for lithium batteries, lithium iron phosphate batteries, lead-acid batteries, and nickel-metal hydride batteries whose voltage is from 8V to 90V.

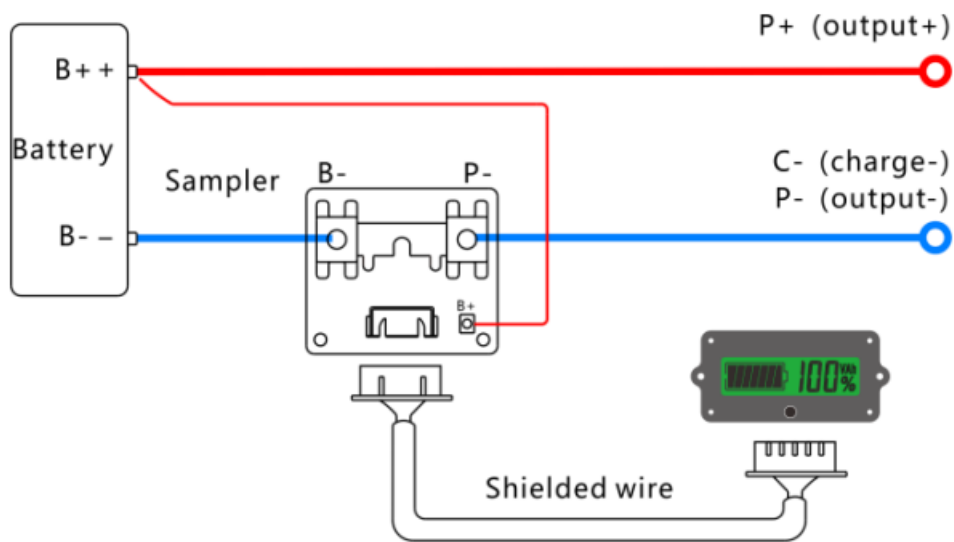
● Basic parameters				
Parameter	Min	Type	Max	Unit
Working voltage	8.0	50.0	90.0	VDC
Working dissipation		8.0	10.0	mW
Standby dissipation			0.15	mW
Sleep dissipation			15	uW
Voltage accuracy		±1.0		
Current accuracy		±1.0		%
Capacity accuracy		±1.0		%
Backlight on current			50	mW
Capacity setting value	0.1		999.0	Ah
Current of 50A sampler	0.0	50.0	75.0	A
Current of 100A sampler	0.0	100.0	150.0	A
Temperature range	0	20	40	°C
Weight		21		g
Size	59×27×17			mm

Note: The size and function of FG05V are the same, but the internal parameters are different, so it must match correct sampler, and cannot exchange.

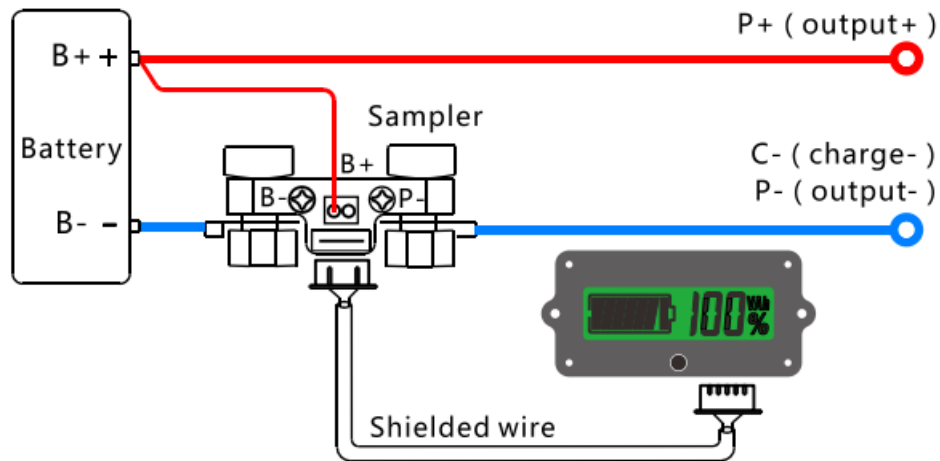
Connect

- We need a shielded wire and an ordinary wire (0.3-0.75 mm²). One end of the ordinary wire connects to the positive, the other end connects to B+ of the sampler (any one is ok). The B- of the sampler connects to the B- of the battery. The P- of the sampler connects to the P- of the output. Finally, connect the sampler to FG05V by the shielded wire.

Connection method of 50A sampler



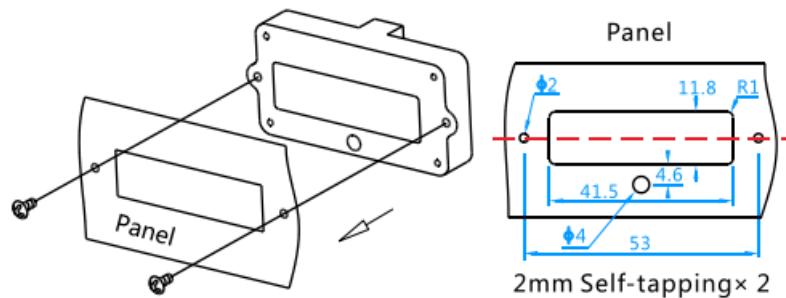
Connection method of 100A sampler



Attention: Please connect as shown strictly. The sampler must be connected to the negative circuit, it is forbidden to connect to the positive circuit. If you want to extend the shielded wire, you must use 4 lines of same specification.

Install




- First, open holes on the panel of equipment as shown. Then install from the back of the panel, and put the prominent LCD in the rectangular orifice. Finally, fix with tapping screws from the front. As shown below:



Use steps

- Connect and check the current:** Power on after completing the connection as shown and the screen should




display the capacity percentage. If the screen has no response please check the connection. Then charge or discharge the battery, and check whether the display current is equal to the actual current. If the deviation is large please check the connection.

- **Capacity reset** On first use the percentage and capacity is not the actual value you should reset the capacity discharge the battery totally and hold the " "key for 3s to set the capacity zero or charge the battery fully and hold the " "key for 3s to set the capacity full FG05V will be work and it doesn't need to do this again later, except replace the battery.
- **Check and reset the actual capacity** If you find the display capacity doesn't match the actual capacity please check and reset the actual capacity discharge the battery totally and hold the " "key for 3s to set the capacity to zero then set the preset capacity as large as possible. Then charge the battery fully and the display capacity is the actual capacity. Finally set the display capacity as preset capacity (Please refer to use setting).




Other description

- When charging or discharging, must be at work. Otherwise, the capacity will not be accurate.
- Connect the load, when the discharge current is higher than 10mA, the backlight is on and indicates that the load is discharging (if the backlight blinks, then the B- and P- are inverse). Besides, display the discharge current and real-time voltage.
- Break the load, and connect the charger. When the charge current is higher than 10mA, the backlight blinks and indicates that the battery is charging (if the backlight is on, then the B- and Pare inversely). Besides, display the charge current.
- When the charge or discharge current value is lower than 10mA, enter a low power state and backlight off. Click any one of the keys, backlight on 10s.
- Because of high sensitivity, when is in standby mode (battery has no input or output current), if it is interfered by electromagnetic radiation (open or close inductive loads, such as high-power motor) nearly, the backlight will shortly turn on.
- When the current changes frequently the date acquisition may produce error, and it will affect the accuracy.

Use setting

- Long press " "key on the back when power off, then power on. FG05V displays the setting capacity. Use " "or " "key to plus or minus the capacity value, select correct capacity you need, and click the OK key on the front. FG05V will be OK.





- Long press the " " key on the back when power off, and FG05V enters the zero capacity voltage set menu. Use the " "or " "key to plus or minus the voltage value, when the battery voltage is lower than it the percentage will be 0% and the backlight off.



- When FG05V works, the left of LCD display the battery symbol the right can display the percentage of capacity present current present voltage capacity value, Clicking the OK key on the front can change the display message. The backlight blink when charging, the backlight is on when discharging.



- When display percentage of capacity and capacity, long press“”key you can set it fully, long press“”key you can set it to zero.



- When on first use or change the battery the memory capacity should be set to zero or full: In the main interface hold the key for 3s to set the capacity to zero the percentage is 0% hold the key for 3s to set the capacity full the percentage is 100%.

Accessory

- FG05V has a sampler.You should buy the 0.5m shield wire separately (1m,1.5m,2m,3m.... can select).


Attention and warranty

- FG05V cannot be exposed in the sun for a long time. When using or storing, please keep the temperature higher than -20°C and lower than 60°C, otherwise it will shorten the life of LCD.
- Within one year, any fault caused by non-artificial reason we should maintain it freely.

Our products will keep upgrading, if the product you bought is different with this instruction, please take the material object or website as the standard.

Web: www.enjpower.com Email: sales@ejtechgroup.com

Documents / Resources

	<p>E J technology EJ-FG05V High Precision Current Type Battery Capacity Tester [pdf] Instru ctions EJ-FG05V, High Precision Current Type Battery Capacity Tester, EJ-FG05V High Precision Curr ent Type Battery Capacity Tester, Current Type Battery Capacity Tester, Battery Capacity Tester, Tester, EJ-FG05V 2019</p>
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References

- [Manufacturer of battery fuel gauge|battery coulometer|battery soc display|battery meter,battery BMS| -- Manufacturer of battery fuel gauge|battery coulometer|battery soc display|battery meter|tester,battery BMS|PCB|PCM,custom lithium-ion battery pack](#)