

## Chapter 1 : EBC-A05 | Power Cartel

*I recently acquired a ZKE EBC-A05 DC electronic load and battery charger to use in testing lithium ion batteries. This device has a nice set of features, including: 4-wire test interface, to minimize impact of load/charging current on reading battery voltage.*

As you can see particularly in the 3. With low charging and discharging loads, the battery tester is completely silent, apart from the occasional click you hear from the relay. However, with a larger load, the fan will initiate to offer active cooling to the device. Its not loud as per se, it sounds as loud as a desktop PC, but if you are bothered by fan noise, its something to consider. It sounds roughly like a modern fridge, when its not under load, a quiet background hum at this range. After turning on the unit, the display powers up and has two lines showing the interface. The Third field shows the current, be it Charging or discharging current. The Second Field Displays Power when the last field is showing capacity in mWh or Time in minutes, when the final field shows capacity in mAh. First Field lets you set the aforementioned operating mode. The second Field is the charging current. First Field sets the termination Voltage. Second Field is Cutoff Current. Second Field is run time minutes Album showing the UI: Navigating within the Fields and between them is easy and intuitive. For the operating mode, it switches between the charge and discharge modes, for the Voltage and Current, and Time Fields, it cycles the highlighted number between If it seems daunting in text, it really isnt in practise. After a few tries, I quickly got the hang of it. The Manual, linked at the top of the review, also explains it really well. The main interface consists of a graph dominating the view, a pane to the left with settings for the test or cycle, a tool bar with some quick save and setting buttons, a tool bar with further options, and a little summary below the graph, showing some stats. The other View, Cycle test, allows you to generate custom routines. You can generate a routine of 10 steps and Cycle it up to times. Yes, I tested that cycle limit. I have attached a few of my routines here. There is one minor annoyance I noticed during my testing though. The other huge benefit of the PC interface is the ability to export Data. You can choose to export it form of the graph the program draws, or more usefully, the raw data, formatted as a CSV text file. You can then use this data to import it into the software of your choice and use it to analyse, display the data as per your choosing. Since you can manipulate the data, you can also overcome the issue of better representing whether the current is charge or discharge. I also need to note that the software is in active development, I had a few problems and observed a few bugs, and emailed the Rep, and she responded to me with an updated version of the software within a few days. This is very encouraging, to see a hardware vendor have such good and swift support for their software, something which is unfortunately all less and less common these days. Software running in W10 Under VirtualBox: These include NiMh and NiCd cells. However, it has no problem discharging those cells, as shown by the enloop discharge curve and data. The Software and the Display both show the voltage level to 3 decimal places Precision is rated at 3 millivolts , to 4. Above that level, the precision is rated at 10mV. The current display shows up to 10mA precision from Amperes. The control over voltage levels however is less granular, with the increments for voltage being 10mV. The current control shows a similar level of granularity, with increments of 10mAh. The minimum charging current is mAh. This is perfectly acceptable for most cells, apart from some really small ones cells eg, 90mAh sized cells. The termination current also starts at a minimum of mAh, with increments of 10mAh. The minimum termination current of mAh is okay for new and larger cells, but for older, warn cells and lower capacity cells lower than mAh , the termination current is a bit high and will result in the cell not being completely charged. The unit is rated at 85W, 20Ampere at 4. The maximum charging current is 5A, which is fine for most Lithium Ion cells but might be a bit slow for larger lead acid and lithium batteries.

### Chapter 2 : Buy Cheap Ebc Battery from Global Ebc Battery Suppliers and Manufacturers at [blog.quintoapp.com](http://blog.quintoapp.com)

*blog.quintoapp.com EBC-A10 User Manual Copyright (C) ZKE Technology switch between mAh and Ah). Working process reads OFF when the test stops.*

This device has a nice set of features, including: Constant current or constant power load testing at up to 12v 5A. I think I first learned of them while rooting through some Chinese flashlight and battery forums with the aid of Google and Bing translate. I was intrigued because they seemed to combine a nice feature set at what, I assumed, was a reasonable price, if I could get one without paying a huge markup. Operation Standalone The EBC-A05 is made to be used with PC software to log data and control multi-step test plans, but all the core charging and discharging functionality is available standalone, through the front-panel interface. I found the interface relatively intuitive and easy to understand and use, though referring to google-translated version of the chinese documentation helped fill in some gaps. Holding down the set button causes a blinking cursor to display in the upper-left section of the display responsible for indicating the operating mode. Each operating mode has additional parameters that can be set. Lithium Ion charging profile 4. LiFePO4 charging profile The user can specify a charging current, and the number of cells connected in series. A maximum charging duration can also be set. As an option, the user can choose to perform an automated three-step charge-discharge-charge test. When this option is chosen the user additionally specifies current and termination voltage for a constant-current discharge test, along with a rest duration between test steps. For example, you could use it to charge cells with a 4. When the EB Tester software is running on the PC, and the connection is initiated to the device, the front-panel inputs are locked out. The LCD continues to show the operating mode, voltage, current, but indicates the PC connection is active. Single Step The PC software can be used to configure and initiate a single-step test. The software allows export of a graphic, or a datafile. Multistep The software allows automation of multistep testing. I will update this section once I have the opportunity to try some multistep tests.

**Chapter 3 : # Best Cheap Electronic Load / Data Logger? Introduction and Test**

*ZKE EBC-A10 Li Pb Battery Charging Capacity Test Power Performance Tester Charger.*

As you can see particularly in the 3. With low charging and discharging loads, the battery tester is completely silent, apart from the occasional click you hear from the relay. However, with a larger load, the fan will initiate to offer active cooling to the device. Its not loud as per se, it sounds as loud as a desktop PC, but if you are bothered by fan noise, its something to consider. It sounds roughly like a modern fridge, when its not under load, a quiet background hum at this range. After turning on the unit, the display powers up and has two lines showing the interface. The Third field shows the current, be it Charging or discharging current. The Second Field Displays Power when the last field is showing capacity in mWh or Time in minutes, when the final field shows capacity in mAh. First Field lets you set the aforementioned operating mode. The second Field is the charging current. First Field sets the termination Voltage. Second Field is Cutoff Current. Second Field is run time minutes Album showing the UI: Navigating within the Fields and between them is easy and intuitive. For the operating mode, it switches between the charge and discharge modes, for the Voltage and Current, and Time Fields, it cycles the highlighted number between After a few tries, I quickly got the hang of it. The Manual, linked at the top of the review, also explains it really well. The main interface consists of a graph dominating the view, a pane to the left with settings for the test or cycle, a tool bar with some quick save and setting buttons, a tool bar with further options, and a little summary below the graph, showing some stats. The other View, Cycle test, allows you to generate custom routines. You can generate a routine of 10 steps and Cycle it up to times. Yes, I tested that cycle limit. There is one minor annoyance I noticed during my testing though. The other huge benefit of the PC interface is the ability to export Data. You can choose to export it form of the graph the program draws, or more usefully, the raw data, formatted as a CSV text file. You can then use this data to import it into the software of your choice and use it to analyse, display the data as per your choosing. Since you can manipulate the data, you can also overcome the issue of better representing whether the current is charge or discharge. Note that the current axis now shows negative and positive values, and it is easier to differentiate between a charging and discharging current. I also need to note that the software is in active development, I had a few problems and observed a few bugs, and emailed the Rep, and she responded to me with an updated version of the software within a few days. This is very encouraging, to see a hardware vendor have such good and swift support for their software, something which is unfortunately all less and less common these days. Software running in W10 Under VirtualBox: Running on Surface, showing start of a 25 cycle LifePo4 test: Completed modified LifePo4 25 cycle test: Constant Power 15W discharge of LifePo4 cell: Generating Eneloop Discharge curve using LibreOffice: Right click on graph to show instant data: Charge and Discharge LiIon battery and different rates: Album of PC Interface: These include NiMh and NiCd cells. However, it has no problem discharging those cells, as shown by the eneloop discharge curve and data. The Software and the Display both show the voltage level to 3 decimal places Precision is rated at 3 millivolts , to 4. Above that level, the precision is rated at 10mV. The current display shows up to 10mA precision from Amperes. The control over voltage levels however is less granular, with the increments for voltage being 10mV. The current control shows a similar level of granularity, with increments of 10mAh. The minimum charging current is mAh. This is perfectly acceptable for most cells, apart from some really small ones cells eg, 90mAh sized cells. The termination current also starts at a minimum of mAh, with increments of 10mAh. The minimum termination current of mAh is okay for new and larger cells, but for older, warn cells and lower capacity cells lower than mAh , the termination current is a bit high and will result in the cell not being completely charged. The unit is rated at 85W, 20Ampere at 4. The maximum charging current is 5A, which is fine for most Lithium Ion cells but might be a bit slow for larger lead acid and lithium batteries. Conclusion The Tester unit is well built and sturdy Wide range of Charging and discharge voltage Informative display and well thought out UI PC connectivity allowing programming of extended routines Ability to export raw data. Test Leads are a little short for some situations. Not really loud, but some definite audible fan noise under heavy loads. Its not for everybody, but the wide range of operating voltages, the generous discharge

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current, and the ability to program and interface it with a PC represents a huge range and versatility for battery enthusiasts. Thanks for reading my long and winding review, I hope you guys found it informative! I was provided this item for my assessment and review. Other than the item itself, I have not received any compensation or monetary payout for it.

### Chapter 4 : ZKE EBC-A05 DC-Electronic Load & Charger | Power Cartel

*ZKE EBC A05 DC-Electronic Load & Charger | Power Cartel*

### Chapter 5 : ZKE EBC EBD Electronic Load Tester English manual and software.

*ZKE EBC EBD Electronic Load Tester English manual and software.*

### Chapter 6 : ZKE EBC-A10 Battery Capacity Testing Instrument is a testing and measuring device to detect the capacity of battery. It is also an electronic load instrument with charging function for all types of batteries.

*EBC-A10 Battery Capacity Testing Instrument is a testing and measuring device to detect the capacity of battery. It is also an electronic load instrument with charging function for all types of batteries.*

### Chapter 7 : EBC-A20 PC Programmable Battery Tester | blog.quintoapp.com

*Description. Features. It's a battery tester and power bank tester highly recommended by lots of professional forums. It tests battery performance, by monitoring capacity, resistance, voltage, current, average current, and wattage.*

### Chapter 8 : ZKE EBC-A10 Li Pb Battery Charging Capacity Test Power Performance Tester Charger | blog

*EBC-A10H Li/Pb Battery Charging Capacity Test Power Performance Tester & Charger with 19V 4A Power + USB to TTL Cable Features: Battery Capacity Test.*

### Chapter 9 : EBC-A20 (PC programmable battery tester) review and impressions : flashlight

*Ebc-a10h Dc12v 1a Battery Capacity Tester Measurement For Alkaline Cr Button Disposable Batteries, Find Complete Details about Ebc-a10h Dc12v 1a Battery Capacity Tester Measurement For Alkaline Cr Button Disposable Batteries, Battery Tester, Battery Capacity Tester, Battery Load Tester from Battery Testers Supplier or Manufacturer-Shenzhen Tianzhongtian Trading Co., Ltd.*