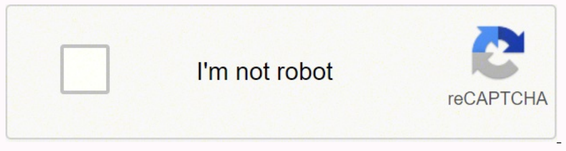

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How to test car battery amps with multimeter

Batteries are one of the essential elements of our cars. Any harm incurred by the battery can affect your vehicle as well. If your car headlights stop working or you are unable to turn on your car engine, there is a good chance that your battery has suffered some form of damage. The best way to ensure good battery life is to check it from time to time. The Multimeter is one of the best tools to test car battery amps. Read on to know more about how you can employ the Multimeter to check battery amp-hours, automotive battery, etc.How to Check Car Battery Amps with a Multimeter?A Multimeter is an effective tool for testing your car batteries. Once you have perfected the measuring process, it will be easy for you to test the car batteries.If you want to perfect your reading, you should start by practicing different types of cells. For instance, you can practice with batteries from remotes, video games, torches, lamps, etc.1.Check your Multimeter by setting down its functions to ohms. When you connect the test leads, the readings should be zero, and they should be one when the connection is severed. In case the battery does not follow the pattern mentioned above, then there is something wrong with the same. 2.The multimeters available in the market are of two types – analog and digital multimeters. The former displays readings with the help of a micrometre and a moving pointer. Meanwhile, the latter shows the reading with the help of a numerical display. 3.You will have to set the Multimeter at 20v Volt. The 20V range implied that the ranging meter will measure between 0V and 20V. 4.Turn off the ignition and car radio.5.Next, you will have to locate the battery of your car. The car battery is located in the engine room. You will have to open and search for the battery close to the car engine. You will have to connect the Multimeter to the batteries of your car. The Multimeter's red probe shall be connected to the positive terminal. Meanwhile, the black probe must be connected to the negative terminal. Low Temperature High Energy Density Rugged Laptop Polymer Battery Battery specification: 11.1V 7800mAh -40℃ 0.2C discharge capacity ≥80% Dustproof, resistance to dropping, anti - corrosion, anti - electromagnetic interference6.You can turn on the Multimeter and set the correct voltage range to measure the battery voltage. Car batteries offer 12.6V Direct Current via six cells, each of which produces 2.1V.If your car battery reads 12.6 V, it means that it is fully charged. Meanwhile, 12.4 V means the battery is 75% charged. 12.2 V implies 50% charged and 12 V implies that it is 25% charged and should be charged as soon as possible. If the reading shows 11.9 V and below, it is indicative of the fact that the battery is completely discharged. How to Test Automotive Battery and Cranking Amps with a Multimeter?Owing to how fast multimeter tests are and how reliable the results are, multimeter tests are done worldwide at home and by car technicians. There are tons of multimeters available on the internet, and you can easily buy one to take care of all your house batteries without the help of a car mechanic.Here are the steps you can follow to effectively check the Cold Cranking Amps or CCA of a car battery.1.Connect the Multimeter to the battery terminals and kickstart the car's ignition. You will need an extra pair of hands for the task as one will have to control the ignitions, and the other person will have to monitor the fluctuations while the engine is still up and running.2.The ideal situation is the reading on the Multimeter goes down to 10V and then comes up to show a reading of around 12 V. If the reading stays the same after the first value drop, it indicates good condition.3.If the initial reading on the Multimeter is around 5 V and not less, it means that your car's battery won't last long. If the reading is way below 5 V, it is time for you to replace the cells.How to Check Battery Amp Hours with a Multimeter?Technicians use the term mAh or Milliamp-hours to find out about the operating lifetime of a car battery. Here are the steps to check the mAh with the help of a Multimeter:1.Set the control knob of the tool to the battery check position. In case the meter's internal battery has been depleted entirely, you can replace it,2.Put the battery in a holder. You will have to use a snap-on battery clop and wire leads for 9-volt batteries.3.Place the alligator clips on the tips of the meter's probe.4.Pick a resistor that is perfect for the battery voltage and a typical drain current. The following table can help:D battery, 200 ma drain current.C battery, 100 maAA battery, 50 maAAA battery, 10 ma9-volt, 15 maYou can divide the battery's voltage by the current drain in amperes to get the value of resistance.5.Reset the stopwatch.6.Connect one of the resistors leads with the positive terminal of the car battery7.Change the position of the control knob to read DC or direct current in the 2200 milliamp range.8.Clip the positive probe to the resistor lead, which is unconnected. Next, clip the negative probe to the negative terminal of the battery. You will receive a positive current reading on the meter.9.Start the Stopwatch10.Make sure to check the reading of the current after every hour. Stop the stopwatch when the current has reached about 70% of the original reading.11.You will be able to calculate the milliamp-hour of the battery by multiplying the current reading on the meter and the hours recorded on the stopwatch. Page 2APR 10, 2020 Pageview : 7893 AGV is a carrier vehicle with electromagnetic or optical automatic guidance device, which can drive along the prescriptive route. It has safety protection and all kinds of transition functions and is applied in industrial area without driver. It tends to be controlled by the computer for route and operation, or by electromagnetic path-following system for route management. The electromagnetic rail is stuck on the floor, and then the AGV moves and acts in accordance with the massage from electromagnetic rail. As the development of society, AGV is widely used in warehousing industry, manufacturing industry, post office, chemical engineering and dangerous occasion.application environmentplace■indoor ■outdooroperating temperature/humidity-20～60℃ ; 40～60%RHstorage temperature/humidity-20～60℃ ; 50～70%RHspecial performancethe requirements of charging and discharging under high-temperature & low-temperatureCharge at 0～45℃;Discharge at -20～60℃other requirementsexpiration dateOne yearexplosive-proof grade/waterproof grade/dustproof grade/dropping frequency/application featuresoperating voltage16V～29.2Vcapacity38.4mAhworking hours2 hoursdimension350*240*120mmoperating current20Aprotection of short circuityesstarting current60A starting currentmaximum continuous operating30Afrequency and timeeverydaycapacity managementcommunication mode □SMBUS ■I2C □HDQcertification and environmental requirement of finished productstypes□GB31241-2014 (CQC) □CE□UL2054□UL60950□un38.3□RCM□KC□PSE□component verification□BIS□BMSI□REACH■RoHS□battery directive□halogen-freeother:schematic designbattery specification26650/8S12P/38.4Ah/25.6Vcell model26650/3200mAh/3.2Vguard plate and hardware configurationICS8261MOSAO/IRPTC无noNTC无nootherBQ34Z100 voltmeterencapsulation mode□fundamental protection ■PVC+ non-fundamental protection □housing+ fundamental protection ■housing+ non-fundamental protectionkey parametersnominal voltage25.6Vnominal capacity38.4Ahdimension350*240*120mminternal resistance≤100mΩweight9.75KGcharging current15Acontinuous discharge current20.0Aprotective current60.0Acharging voltage29.2VEnd-off voltage16Vcycle lifeCharging and discharging requirements: charge at 0.5c, discharge at 0.5cover 1000 cyclescharging temperature0～45℃discharging temperature-20～60℃storage temperature-20～30℃ (less than 6 months) temperature protection/±/℃key features1、Intelligent management with I2C communication2、Charge under large current3、Have temperature protection when charge and discharge at 55℃-65℃product picture Page 3APR 10, 2020 Pageview : 7545 Foreword: (keyword: 18650 lithium ion battery, battery of B supersonic diagnostic set) as the development of medical technology and human substantial living standard, medical devices tend to be portable and products are widely used at home in medical industry. Differ from the unmovable traditional desktop with AC power supply, new B supersonic diagnostic set has advantages of light weight, portability and multifunction. The product is charged by lithium ion battery pack with high performance so as to make sure that it has continuous, efficient and stable operation. 1) Battery design scheme requirements of portable B supersonic diagnostic set:Portable B supersonic diagnostic set is convenient for medical personnel working both indoor and outdoor. Continuous, efficient and stable power source becomes the assurance for medical devices to operate normally. The scheme adopts battery with advanced performance so as to make the battery pack have functions of high specific energy, light weight, small size, long cycle life, high safety performance and high consistency. As for battery management scheme, it adopts intelligent SBS battery management system, which can manage the safety and capacity of the battery availably.2) Battery design scheme of portable B supersonic diagnostic set:Guard plate (PCM): it is protective circuit of rechargeable lithium ion battery pack. Because of the chemical characteristics of lithium ion battery, it needs protective function of intelligent capacity calculation, overcharging, over-discharging, short circuit, overcurrent, etc. so as to avoid combustion, explosion, etc.Protection IC: it is the chip has main protective function in the design scheme. The chip monitors the cell on the functions of overcharging, over-discharging, overcurrent, short circuit, etc. at any time, which helps the battery works under safe, stable and efficient circumstance.18650 lithium ion battery: 18650 Li-ion cell (BAK)MOSFET: it works as the switch in protective circuit to make sure that the voltages of two ends won’t be up and down, so that the voltage will be stable.Capacity controlling chip (BQ2085): it is a full-function capacity survey meter with ADC of voltage and temperature, and ADC of current measurement and charging sensor. This survey meter has a microprocessor to work on capacity measurement, including massage of remaining state of capacity. BQ2085 chip can also display run time to empty. The host machine can search for these information at any time and send them to the customer. It is very convenient for user to control battery capacity by using capacity survey meter.The capsulation of battery pack: plastic case3) Schematic diagram of design solution of portable B supersonic diagnostic set:4) Product pictures of portable B supersonic diagnostic set: Page 4APR 10, 2020 Pageview : 7018 Foreword: (keyword: lithium ion battery of medical infusion pump) as the development of living standard, medical service and products has kept improving. Traditional stationary medical devices are replaced by new medical products with flexibility, high precision and intelligence. New intelligent infusion pump replaces the traditional infusion method. It can work out intelligent and reasonable infusion speed and method according to different patients. What’s more, it is also convenient for different people to use in different places and under different environment. Large Electronics lithium ion battery of medical infusion pump can provide continuously stable power for fixing or moving the devices and work under stable, efficient, continuous and stable circumstance.1) Lithium ion battery design requirements of medical infusion pumpMedical infusion pump is a new intelligent infusion product. Due to the particularity of people and environmental application, it has very strict requirements on battery. For example, the battery needs to input and output on the same port, so that relevant personnel can use safely and conveniently. It must have charging and discharging capacity display. Keep the capacity indicator on for patients and relevant personnel to check at any time. Battery safety performance and fire rating have to meet the special requirements of medical products.1. The design requirements of lithium ion battery pack: 18650-2S4P/10Ah/7.4V2. Input and output characteristics: input and output on the same port. Apply automatic switching function according to the medical special requirements.Output characteristics: the output port of battery DC circuit outputs 5V/2A automatically when the battery doesn’t charge.Input characteristics: insert a 9V/2A adapter on DC output line, and then the battery will charge automatically.Status characteristics: no output status when charge at 9V/2A. Change to 5V/2.5A automatically when take away 9V/2A charging. item Min. Type valueMax. Unitinput voltage8．599．5Vinput Current1．822．2AOutput voltage5．25．45．6VOutput Current022．2A3. Indicator of charging and discharging: assemble a monochromatic lamp and a bi-color light to indicate for battery capacity of high, medium and low signal.6.4V±0.1V red light on7.3V±0.1V blue light on7.9V±0.1V blue light on (two green lights on)4. Discharge condition: it can discharge for about 10-20 minutes after the red light is off.5. The fundamental characteristics of guard plateOver-charged protection voltage of single battery: 4.28±0.25VOver-charged recovery voltage of single battery: 4.10±0.10VOver-discharged protection voltage of single battery: 2.80±0.08VOver-discharged recovery voltage of single battery: 3.00±0.10VOver-discharge cut-off current of battery pack (10ms): 8~12AOver temperature protection value of battery pack (restorable): 70±5℃The finished product has protective function of short circuit and reverse-charging.6. The design requirements of battery cycle life: 300~500 times (national charging and discharging standard)7. Design requirements of battery dimension2) Lithium ion battery design scheme of medical infusion pumpIntelligent buck-boost modular circuit: input 9V/2A to adapter for transition from DC/DC to CC/CV, which is the charging mode that is suitable for two lithium ion batteries in series, and then decrease the voltage of two batteries in series into 5V/2A constant voltage output status. At that moment, open automatic shift mode of input and output status.Guard plate (PCM): it is protective circuit of rechargeable lithium ion battery pack. Because of the chemical characteristics of lithium ion battery, it needs protective function of intelligent capacity calculation, overcharging, over-discharging, short circuit, overcurrent, etc. so as to avoid combustion, explosion, etc.Protection IC: it is the chip has main protective function in the design scheme. The chip monitors the cell on the functions of overcharging, over-discharging, overcurrent, short circuit, etc. at any time, which helps the battery works under safe, stable and efficient circumstance.Temperature switch: it is designed for temperature protection. When the battery is heated up to 70±5℃ due to any issues, the temperature switch begins to protect the battery.18650 lithium ion battery/18650/2500mAh/3.7V Li-ion cell (SANYO) MOSFET: it works as the switch in protective circuit to make sure that the voltages of two ends won’t be up and down, so that the voltage will be stable.DC output line: lithium ion battery inputs and outputs electricity to the infusion bump.Battery case: it meets the medical product fire rating and is part of the battery module.Schematic diagram of design solution

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