



Instruction and Selection of APM Electronic Load

Electronic load is a kind of electronic equipment which simulates the real load. It is often used in the design verification and quality inspection of power drive equipment such as power supply.

- 1) Various static loads can be simulated by constant current(CC), constant voltage(CV), constant power(CP) and constant resistance(CR);
- 2) The complex dynamic load in reality can be simulated by dynamic and programmable loading modes;
- 3) It can measure voltage, current, time and other parameters, realize intelligent analysis and automatic test and other complex applications.

Precautions for electronic load selection:

1. It must be confirmed that the rated input voltage, rated input current and rated input power of the selected model can meet the test requirements with a little margin.
2. If dynamic test is required, it should be confirmed whether current slope has programmable ability and slope control range.
3. If the dynamic test requirements are relatively high, confirm whether the maximum current slope meets the test requirements. Generally speaking, the smaller the climbing time of full scale current is, the better the dynamic performance is.
4. In general, the smaller the full scale current climb time is, the higher the loop bandwidth is, the better the performance and the higher the reliability are under the adverse conditions.
5. For users with high requirements for intelligent application and automatic test, high sampling rate load should be selected. High sampling rate can ensure the restoration of input signal, the accuracy of application, and provide conditions for the expansion of intelligent application. APM Technologies high power DC electronic load series adopt 500KHz synchronous sampling technology, which can measure and display the



functions that the general load cannot provide, such as transient overshoot VP +, transient drop VP -, power up / down time, etc.

6. For the application of production line, priority should be given to the systematicness and convenience of automatic test function. APM Technologies high power DC electronic load series of science and technology provide strong automatic test ability, support dynamic operation, OCP, load effect, time measurement and many other extended operation modes. At the same time, the Flippable Front Panel and Color Touch Screen are also very suitable for the application of production line.