ITECH
YOUR POWER TESTING SOLUTION

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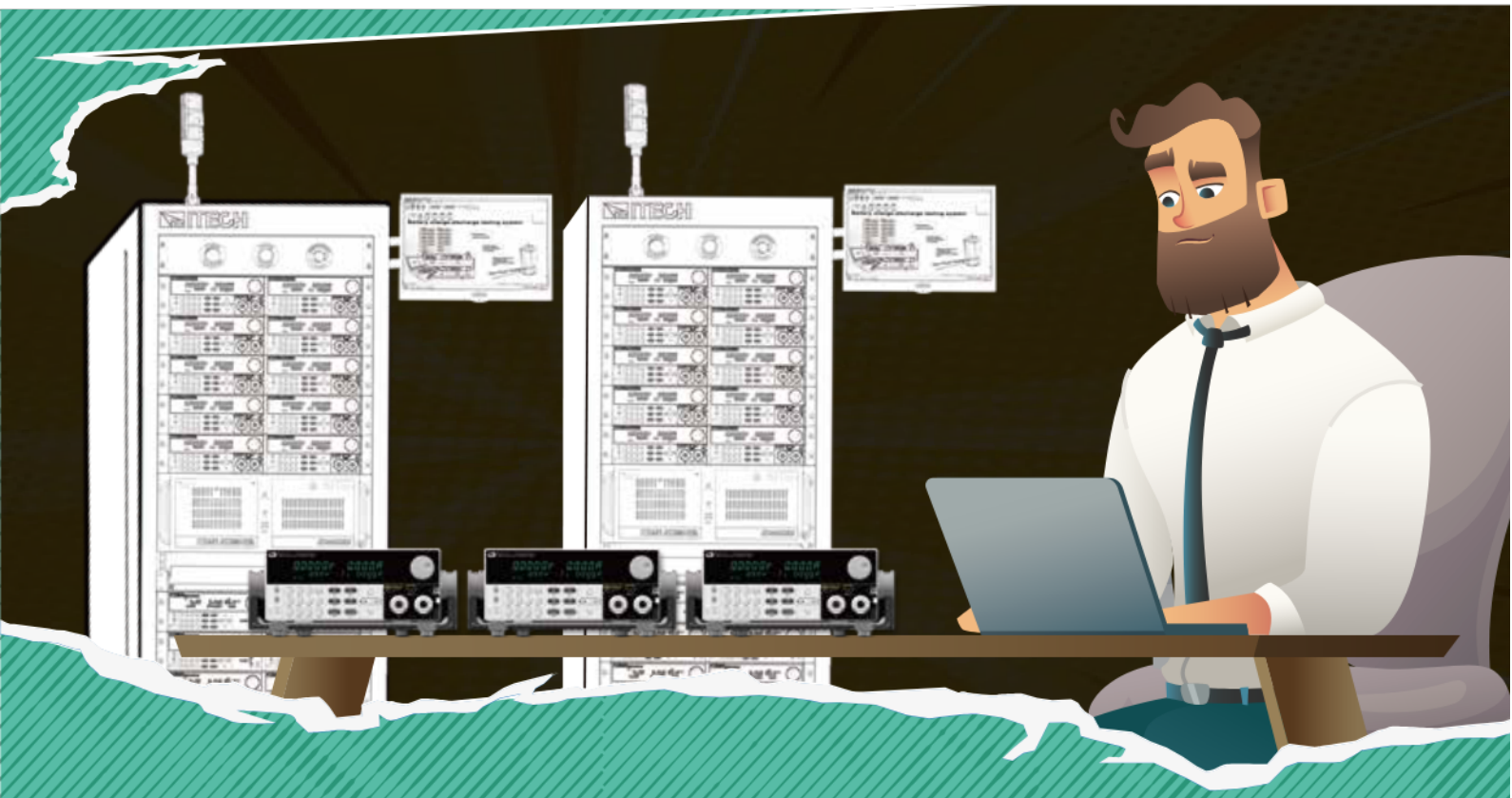


IT8500G+ series
Programmable DC Electronic Load

APPLICATIONS

- Battery test
- Lithium battery protection board test
- Power supply test
- Charger test
- Component test
- ATE

Your Power Testing Solution

IT8500G+ series Programmable DC Electronic Load



IT8500G+ series programmable electronic load is not only a desktop power supply, but also suitable for system integration. It is specially designed for fast charging adapters, power banks, industrial power modules, power electronic device R&D and burn-in testing. It not only has the traditional CC/CV/CR/CP load mode, but also provide compound modes such as CR+CC/CV+CC/CR-LED, which are widely applicable to DUTs with different characteristics. So it performs well in limiting current overshoot and dynamic loading. Not only that, the multi-channel mode and ripple measurement mode of IT8500G+ help to reduce test cost and improve test efficiency. Without additional oscilloscope and communication interface, you can easily realize the program control of hundreds of channels.

FEATURE

- 7 operating modes: : CC/CV/CR/CW/CR+CC/CV+CC/CR-LED
- Built-in voltage and current ripple measurement functions
- Built in 8 fast charging communication protocol, including QC2.0, QC3.0, PE+, PE2.0+, USB PD2.0, USB,PD3.0, FCP, SCP *1
- Dynamic mode up to 20kHz
- Voltage measurement resolution up to 0.1mV / 0.1mA
- Multi-channel, up to 16 units can be connected
- OCP/OPP, battery discharge mode
- Auto test, LIST mode, short circuit mode
- Measure function, can measure the voltage rise/fall time
- Monitor 0-100% current at 0-10V (I-monitor)
- Built-in USB/LAN communication interface *2

*1 Only available with IT8511G+

*2 150W model with built-in USB interface

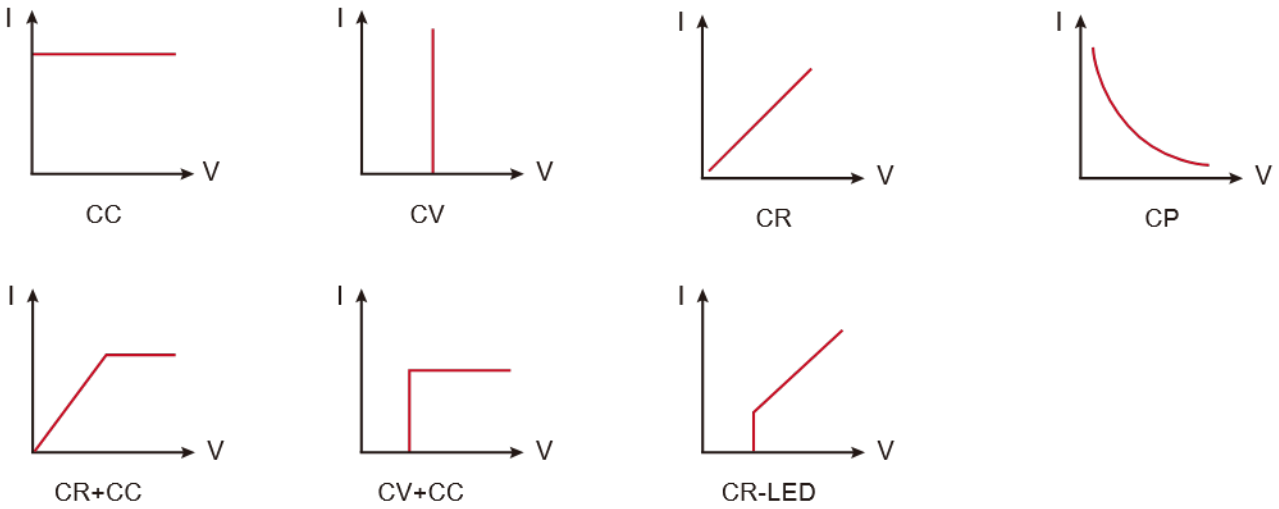
Model	Parameter			Accessories		
	Voltage	Current	Power	Fast charge card IT-E164	USB	LAN
IT8511G+	150V	30A	150W	Optional	Standard	/
IT8512G+	150V	30A	300W	/	Standard	Standard
IT8512BG+	600V	15A	300W	/	Standard	Standard
IT8513G+	150V	120A	600W	/	Standard	Standard
IT8513BG+	600V	20A	600W	/	Standard	Standard
IT8513CG+	40V	200A	600W	/	Standard	Standard

Application



Battery test | Lithium battery protection board test | Power bank test | Charger test | Components test | ATE

7 working mode



Voltage/current ripple measurement

Ripple is one of the parameters that must be tested for switching power supplies. Excessive ripple may cause interference to the DUT or shorten the life of the DUT. IT8500G+ has a ripple measurement function, and its measurement bandwidth is up to 300kHz, which meets the ripple measurement requirements of switching power supplies or chargers. At the same time, its remote sense function can help to eliminate the impact caused by the voltage drop on the line. No oscilloscope needed, users can just press the 'down' button on the front panel to read the voltage ripple value (Vp-p/Vp+/Vp-) and current ripple value (Ipp/Ip+/Ip-) of the DUT directly. This greatly simplifies the wiring and operation process.