

ITECH

DC Electronic Load



YOUR POWER
TESTING SOLUTION

IT8500G+ Programmable

DC Electronic Load

Features of IT8500G+ series



IT8500G+



IT8500+



- 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

*1 Only available with IT8511G+

*2 IT8511G+ comes standard with USB interface.

- Multi-channel, up to 16 units can be connected
- OCP/OPP, battery discharge mode
- Auto test, LIST mode, short circuit mode
- Monitor 0-100% current at 0-10V (I-monitor)
- Built-in USB/LAN communication interface *2

IT8500G+ Series	Parameter		
	Voltage	Current	Power
IT8511G+	150V	30A	150W
IT8512G+	150V	30A	300W
IT8512BG+	600V	15A	300W
IT8513G+	150V	120A	600W
IT8513BG+	600V	20A	600W
IT8513CG+	40V	200A	600W

IT8500+ Series	Parameter		
	Voltage	Current	Power
IT8513B+	500V	30A	600W
IT8513C+	120V	120A	600W
IT8514B+	500V	60A	1500W
IT8514C+	120V	240A	1500W
IT8516C+	120V	240A	3000W

For more models, pls. contact ITECH.

IT8800 Programmable

DC Electronic Load



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FEATURES

- CV/CC/CR/CW mode
- Remote sense
- Measurement resolution:0.1mV,0.01mA
- Dynamic mode: up to 25kHz
- Adjustable current rising slope: 0.001A/us~2.5A/us
- Measurement speed: up to 50kHz

*For any GPIB interface option request , check with ITECH for availability.

- Dynamic test, short-circuit test function
- CR-LED test
- OCP / OVP / OPP / OTP protection
- Support SCPI communication protocol
- Built-in RS232/USB communication interface *
- Free PV8800 remote control software

Model	Power	Voltage	Current	Size
IT8811	150W	120V	30A	1/2 2U
IT8812	250W	120V	30A	1/2 2U
IT8812B	200W	500V	15A	1/2 2U
IT8812C	250W	120V	60A	1/2 2U
IT8813	750W	120V	60A	3U
IT8813B	750W	500V	30A	3U

Model	Power	Voltage	Current	Size
IT8813C	750W	120V	120A	3U
IT8814	1.5kW	120V	120A	3U
IT8814B	1.2kW	500V	60A	3U
IT8814C	1.5kW	120V	240A	3U
IT8816	3kW	120V	240A	3U

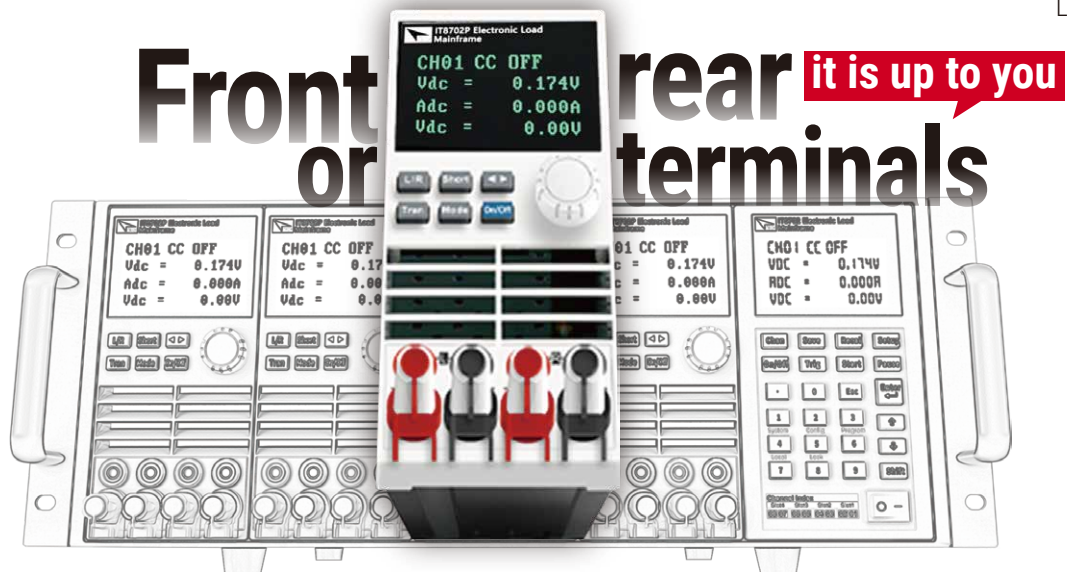
For more models, pls. contact ITECH.

IT8700P/IT8700P+

Multi-channel Electronic Load



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FEATURES

- Three-stage current range, higher accuracy and lower ripple
- Supports master-slave parallel connection of 16-channel modules, flexibly extends power
- Faster dynamic response, the current rising and falling slope of a single module can reach 12A/μs
- Stable operation down to zero volts, suitable for low-voltage capacitors, solar cells, fuel cells, and other low-voltage high current power supplies
- Faster loop speed, precise control of current without overshoot
- The voltage and current measurement speed is upgraded to 250kHz, good for system integration
- Comprehensive protection functions: OVP/OCPP/OPP/OTP, Sense protection
- Compatible with IT8700P mainframe, old and new modules can be matched
- Short-circuit peak current measurement function
- Available front/rear terminals*1
- 8 operating modes: CC/ CV/ CR/ CW/ CV+CC/ CR+CC/ CW+CC/ CV+CR (CR-LED)
- Automatic test function to tell whether the test results exceed the set specifications
- Built-in LAN, USB, RS232 interfaces*2
- CV loop speed is adjustable to match different DUTs
- Multi channel synchronous control

*1 Current is no more than 15A if connecting with front terminals

*2 Models with (G) includes GPIB, please consult ITECH for details.

Model	Voltage	Current	Power
IT8721P+*2	150 V	20 A	MAX 150W*2CH
IT8731P+	150 V	40 A	200 W
IT8722P+*1	150 V	20 A	MAX 250W*2CH
IT8723P+	150 V	45 A	300W*2CH
IT8732P+	150 V	60 A	400 W
IT8733P+	150 V	120 A	600 W
IT8722BP+*1	600 V	15 A	MAX 250W*2CH
IT8732BP+	600 V	20 A	300W
IT8733BP+	600 V	30 A	500W

Main Frame	
IT8701P	Mainframe for 2 modules (including three interfaces)
IT8702P	Mainframe for 4 modules (including three interfaces)
IT8703P	Expansion mainframe for 4 modules

*1 It is a dual-channel dynamic power distribution module. The parameters of the two channels are the same. The maximum power of a single channel is 250W. The total power of the two channels is not more than 300W. The average power of a single channel is 150W.

*2 It is a dual-channel dynamic power distribution module. The parameters of the two channels are the same. The maximum power of a single channel is 150W. The total power of the two channels is not more than 200W. The average power of a single channel is 100W.

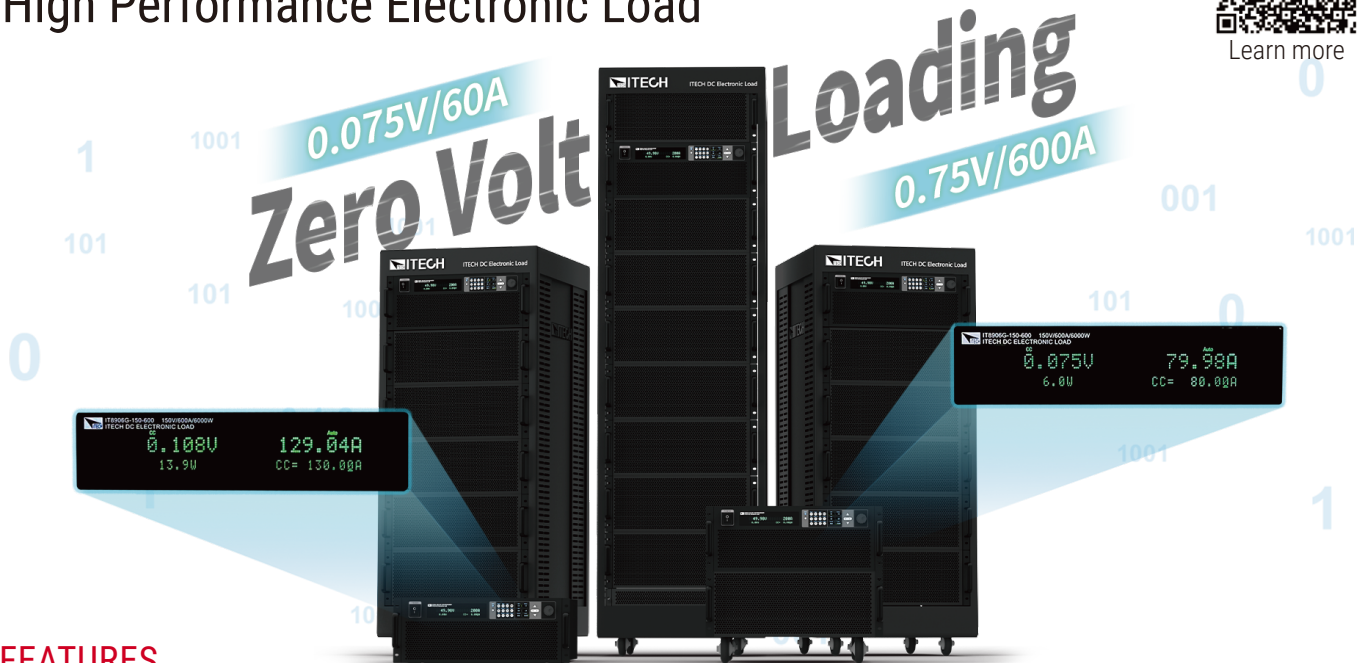
For more models, pls. contact ITECH.

IT8900G/L High Speed

High Performance Electronic Load



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FEATURES

- Maximum power of single unit: 2-54kW
- Voltage range: 150V, 600V, 1200V
- Current range: 4U module up to 600A, master/slave parallel control, power expansion up to 600kW
- Multiple operating modes: CC, CV, CR, CP, CC+CV, CV+CR, CR+CC, CP+CC *1
- Fast current rise and fall and 30kHz dynamic mode *2
- CV loop speed adjustable to match different power supplies
- Low voltage and high current loading, internal resistance about 0.7mΩ
- 500kHz high speed voltage and current sampling rate
- Timing control list programming, OCP/OPP test I-monitor
- Built-in LAN, USB, RS232, GPIB, CAN, external analog
- Support OVP, OCP, OPP, OTP, current oscillation protection, current limit, power limit, fan blocking protection, reverse alarm, etc.
- Independent control by master unit, easy to maintain and install

*1 IT8900L only supports CC, CV, CR, CP

*2 30 kHz only for 150V G-Series models

Input power	150 V	600 V	1200 V	Height
2 kW	IT8902G/L-150-200	IT8902G/L-600-140	IT8902G/L-1200-80	4U
4 kW	IT8904G/L-150-400	IT8904G/L-600-280	IT8904G/L-1200-160	4U
6 kW	IT8906G/L-150-600	IT8906G/L-600-420	IT8906G/L-1200-240	4U
8 kW	IT8908G/L-150-800	IT8908G/L-600-560	IT8908G/L-1200-320	8U
12 kW	IT8912G/L-150-1200	IT8912G/L-600-840	IT8912G/L-1200-480	8U
18 kW	IT8918G/L-150-1800	IT8918G/L-600-1260	IT8918G/L-1200-720	15U
24 kW	IT8924G/L-150-2400	IT8924G/L-600-1680	IT8924G/L-1200-960	27U
30 kW	IT8930G/L-150-2400	IT8930G/L-600-2100	IT8930G/L-1200-1200	27U
36 kW	IT8936G/L-150-2400	IT8936G/L-600-2400	IT8936G/L-1200-1440	27U
42 kW	IT8942G/L-150-2400	IT8942G/L-600-2400	IT8942G/L-1200-1680	37U
48 kW	IT8948G/L-150-2400	IT8948G/L-600-2400	IT8948G/L-1200-1920	37U
54 kW	IT8954G/L-150-2400	IT8954G/L-600-2400	IT8954G/L-1200-2160	37U

For more models, pls. contact ITECH.

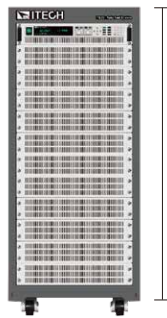
IT8000 Series High Power

Regenerative Electronic Load



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Conventional
30kW DC-load



24U



IT8000
36kW

Size reduced by

80%



6U

FEATURES

- Recover DC energy to local grid with efficiency up to 95%
- High power density up to 18kW in compact 3U rack space, expandable up to 2 MW by paralleling
- DC input voltage up to 2250V
- DC input current up to 8000A
- Adopts third-generation SiC technology
- Built-in waveform generator, support generating arbitrary waveforms
- LIST function, support importing LIST files by front USB
- Feedback energy measurement function
- Battery test function, short circuit test function
- Full protection: OVP/OCV/OPP/OTP/UVP, Vsense anti-reverse connection protection, and voltage transient drop protection
- Built-in standard USB/CAN/LAN/digital IO interface, and optional GPIB/Analog&RS232 interfaces
- Support SCPI/Modbus/CANOpen protocols
- Operating mode:CC/CV/CP/CR/CC+CV/CV+CR/CR+CC/C-C+CV+CP+CR

*The regenerated power is for local grid purpose, not for public grid purpose.

	Model	Current	Power		Model	Current	Power		Model	Current	Power
80V	IT8005-80-150	150A	5kW	300V	IT8006-300-75	75A	6kW	500V	IT8006-500-40	40A	6kW
	IT8010-80-300	300A	10kW		IT8012-300-150	150A	12kW		IT8012-500-80	80A	12kW
	IT8015-80-450	450A	15kW		IT8018-300-225	225A	18kW		IT8018-500-120	120A	18kW
	IT8030-80-900	900A	30kW		IT8036-300-450	450A	36kW		IT8036-500-240	240A	36kW
	IT8045-80-1350	1350A	45kW		IT8054-300-675	675A	54kW		IT8054-500-360	360A	54kW
	IT8060-80-1800	1800A	60kW		IT8072-300-900	900A	72kW		IT8072-500-480	480A	72kW
	IT8075-80-2040	2040A	75kW		IT8090-300-1125	1125A	90kW		IT8090-500-600	600A	90kW
	IT8090-80-2040	2040A	90kW		IT8108-300-1350	1350A	108kW		IT8108-500-720	720A	108kW
	IT8105-80-2040	2040A	105kW		IT8126-300-1575	1575A	126kW		IT8126-500-840	840A	126kW
	IT8120-80-2040	2040A	120kW		IT8144-300-1800	1800A	144kW		IT8144-500-960	960A	144kW

	Model	Current	Power		Model	Current	Power		Model	Current	Power
800V	IT8006-800-25	25A	6kW	1500V	IT8018-1500-40	40A	18kW	2250V	IT8018-2250-25	25A	18kW
	IT8012-800-50	50A	12kW		IT8036-1500-80	80A	36kW		IT8036-2250-50	50A	36kW
	IT8018-800-75	75A	18kW		IT8054-1500-120	120A	54kW		IT8054-2250-75	75A	54kW
	IT8036-800-150	150A	36kW		IT8072-1500-160	160A	72kW		IT8072-2250-100	100A	72kW
	IT8054-800-225	225A	54kW		IT8090-1500-200	200A	90kW		IT8090-2250-125	125A	90kW
	IT8072-800-300	300A	72kW		IT8108-1500-240	240A	108kW		IT8108-2250-150	150A	108kW
	IT8090-800-375	375A	90kW		IT8126-1500-280	280A	126kW		IT8126-2250-175	175A	126kW
	IT8108-800-450	450A	108kW		IT8144-1500-320	320A	144kW		IT8144-2250-200	200A	144kW
	IT8126-800-525	525A	126kW								
	IT8144-800-600	600A	144kW								

For more models, pls. contact ITECH.

IT-M3800 Regenerative

Electronic load



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FEATURES

- Compact design, 1U@6kW, 2U@12kW
- Voltage range: 10~1500V
- Current range: 8A~720A
- Power range: 12kW
- Master/slave parallel connection, keep good performance while power extension*1
- Efficient power regeneration - reduce cost of electricity and cooling
- Slope of voltage, current and power is settable
- Battery discharge test
- Short-circuit simulation
- List function, max.200 steps
- 8 operation modes under Source mode: CC/CV/CW/CR/CC+CV/CV+CR/CR+CC/CC+CV+CW+CR
- Von function - On/Off control
- Multiple protection: OVP / $\pm$ OCP / $\pm$ OPP / OTP /voltage transient drop protection/anti-islanding
- Built-in USB/CAN/LAN/digital IO interfaces, Optional GPIB/Analog&RS232

*This series 10V of 2U models can support up to 8 units in parallel, other models can support up to 16 units in parallel.

	Model	Current	Power	Size
10V	IT-M3801-10-120	3~120A	12~1200W	1U
	IT-M3802-10-240	4~240A	40~2400W	1U
	IT-M3803-10-360	6~360A	60~3600W	1U
	IT-M3807-10-720	12~720A	120~7200W	2U

	Model	Current	Power	Size
32V	IT-M3802-32-80	80A	2kW	1U
	IT-M3804-32-160	160A	4kW	1U
	IT-M3806-32-240	240A	6kW	1U
	IT-M3812-32-480	480A	12kW	2U

	Model	Current	Power	Size
80V	IT-M3802-80-40	40A	2kW	1U
	IT-M3804-80-80	80A	4kW	1U
	IT-M3806-80-120	120A	6kW	1U
	IT-M3812-80-240	240A	12kW	2U

	Model	Current	Power	Size
300V	IT-M3802-300-20	20A	2kW	1U
	IT-M3804-300-40	40A	4kW	1U
	IT-M3806-300-60	60A	6kW	1U
	IT-M3812-300-120	120A	12kW	2U

	Model	Current	Power	Size
500V	IT-M3802-500-12	12A	2kW	1U
	IT-M3804-500-24	24A	4kW	1U
	IT-M3806-500-36	36A	6kW	1U
	IT-M3812-500-72	72A	12kW	2U

	Model	Current	Power	Size
800V	IT-M3802-800-8	8A	2kW	1U
	IT-M3804-800-16	16A	4kW	1U
	IT-M3806-800-24	24A	6kW	1U
	IT-M3812-800-48	48A	12kW	2U

	Model	Current	Power	Size
1500V	IT-M3806-1500-12	12A	6kW	1U
	IT-M3812-1500-24	24A	12kW	2U

This information is subject to change without notice.
For more models, pls. contact ITECH.

IT-M3300 Regenerative Electronic load



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FEATURES

- 1U half rack, high power density
- Battery discharge test
- up to 95% high efficient power regeneration
- 8 operating modes: CC/CV/CP/CR/CV+CC/CC+CR/CV+CR/CV+CC+CP+CR
- Supports up to 256 channels running synchronously, enabling synchronous or proportional tracking functionality
- High-speed measurement, keep 10 times / s update rate even connecting 16 stand-alone units
- Adjustable current rise/fall time
- List programming
- Anti-reverse protection function by optional IT-E118
- Five optional interfaces, supporting RS232, CAN, LAN, GPIB, USB_TMC, USB_VCP, RS485, analog and IO

Model	Voltage	Current	Power	Model	Voltage	Current	Power
IT-M3312	60V	30A	200W	IT-M3314	300V	6A	200W
IT-M3322	60V	30A	400W	IT-M3324	300V	6A	400W
IT-M3332	60V	30A	800W	IT-M3334	300V	6A	800W
IT-M3313	150V	12A	200W	IT-M3315	600V	3A	200W
IT-M3323	150V	12A	400W	IT-M3325	600V	3A	400W
IT-M3333	150V	12A	800W	IT-M3335	600V	3A	800W

For more models, pls. contact ITECH.

IT2700 Multi-channel Modular Power System



IT2700



IT2705 DC Power Analyzer

FEATURES

- ATE systems for R&D, design verification and manufacturing
- Compact size: 1U single unit outputs up to 8 channels (IT2702/IT2703/IT2704)
- Free PC software, display 8-channel output
- Load function: support CC, CV, CP, CR, CC+CV, CR+CV, CP+CV, CC+CR, AUTO,BSIM (battery simulation)
- Up to 50kHz external data recording function to improve test efficiency
- Measurement functions: multi-output/single-output display, oscilloscope, data record display, supports average, minimum and maximum values of V/I/P, and calculates P, Ah and Wh for all outputs
- AC input: adaptive 100-380 V ac single phase
- Built-in LAN, USB-TMC,USB-VCP, CAN, digital I/O, data import and export by USB and supports SCPI protocol

Voltage	Current	Power	Regenerative DC load
±20V	±3A	±20W	IT27814/IT27814E
20V	50A	500W	IT27553/IT27553R
30V	15A	200W	IT27534/IT27534R
	30A	500W (2 slots occupied)	IT27554/IT27554R
60V	10A	200W	IT27535/IT27535R
	20A	500W (2 slots occupied)	IT27555/IT27555R
150V	5A	200W	IT27537/IT27537R
	10A	500W (2 slots occupied)	IT27557/IT27557R
IT2702	1U mainframe without front panel (8 slots)		
IT2703	1U mainframe with touch screen (6 slots)		
IT2704	1U mainframe without front panel (8 slots, only available for load modules)		
IT2705	5U mainframe with touch screen (8 slots)		

*IT27xxx should be equipped with IT2702/IT2704/IT2705

*IT27xxxR should be equipped with IT2703

*IT27553/IT27553R is not compatible with the IT2705 mainframe

*IT27814/IT27814E is only compatible with IT2702/IT2705

Meet ITECH ELECTRONIC CO., LTD.

With over 20 years of expertise in manufacturing, ITECH Electronics has established itself as a trusted global symbol of innovation in power electronics testing instruments and solutions. Our extensive catalog boasts more than 60 product series and 1,000 models, including AC/DC programmable power supplies, AC/DC programmable electronic loads, 2-in-1 regenerative power systems, grid simulators, bidirectional DC power supplies, source meters, battery simulators, PV simulators, power meters, battery IR testers, ATE systems, and more.

From the very beginning, ITECH has been committed to innovation, consistently setting industry standards with a focus on high performance, reliability, and precision. Our broad product specifications support a wide range of sectors, including electric vehicles and automotive electronics, solar and energy storage, industrial electronics, commercial aviation, semiconductors, healthcare, academic research, etc.

Aimed to empower the electrified and sustainable future, ITECH continues to contribute with cutting-edge power test solutions and products.

Product Portfolio

- AC/DC programmable power supplies
- AC/DC programmable electronic loads
- Bidirectional DC power supplies
- 2-in-1 regenerative power systems
- Regenerative grid simulators
- High precision source meters
- Battery simulators
- PV simulators
- Power analyzers
- Battery IR testers
- ATE system



Application Fields

- EV and automotive electronics
- Renewable energy
- Battery and energy storage
- Power semiconductors
- Industrial electronics
- Commercial aviation
- Medical electronics
- Academy and research

ITECH ELECTRONIC CO., LTD.

YOUR POWER TESTING SOLUTION

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