ITECH Power Testing Solutions

Präzise Test- und Simulationslösungen für Entwicklung, Validierung und Produktion. Von kompakten Laborgeräten bis zu Hochleistungssystemen im MW-Bereich. Leistungsstark, flexibel und wirtschaftlich.

Unidirectional DC Power Supplies

Bidirectional DC Power Supplies / Regenerative Systems

AC Sources & Grid Simulators

AC/DC Electronic Loads

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ITECH Bidirectional DC Power Supply

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IT6600C Bidirectional Programmable DC Power Supply

FEATURES

- Bidirectional, integrating power supply and e-load in one
- High power density, up to 42kW in 3U
- Independent dual-channel design in 3U unit, and channels can be connected in series or parallel
- Master-slave current equalizing, output max. 10MW in parallel,no performance lost
- Dynamic response ≤200us
- Rise time ≤1ms
- High precision ≤0.03%+30mA
- Built-in communication interface: USB(USB-TMC/USB-VCP), LAN(Rawsocket/Modbus-TCP /Profinet/VNC/VXI-11/Web/Telnet), CAN 2.0B (CANopen/CAN2.0), digital I/O
- Optional communication interface: GPIB/EtherCAT/Analog&RS232
- SCPI & ModBus protocol
- LabVIEW driver & Python Scripts

	Model	Current	Power		Model	Current	Power		Model	Current	Power
1200V	IT6642C-1200-200	200A	42kW	1600V	IT6642C-1600-140	140A	42kW	2250V	IT6642C-2250-100	100A	42kW
	IT6684C-1200-400	400A	84kW		IT6684C-1600-280	280A	84kW		IT6684C-2250-200	200A	84kW
	IT66126C-1200-600	600A	126kW		IT66126C-1600-420	420A	126kW		IT66126C-2250-300	300A	126kW
	IT66168C-1200-800	800A	168kW		IT66168C-1600-560	560A	168kW		IT66168C-2250-400	400A	168kW
	IT66210C-1200-1000	1000A	210kW		IT66210C-1600-700	700A	210kW		IT66210C-2250-500	500A	210kW
	IT66252C-1200-1200	1200A	252kW		IT66252C-1600-840	840A	252kW		IT66252C-2250-600	600A	252kW
	IT66294C-1200-1400	1400A	294kW		IT66294C-1600-980	980A	294kW		IT66294C-2250-700	700A	294kW
	IT66336C-1200-1600	1600A	336kW		IT66336C-1600-1120	1120A	336kW		IT66336C-2250-800	800A	336kW
	IT66378C-1200-1800	1800A	378kW		IT66378C-1600-1260	1260A	378kW		IT66378C-2250-900	900A	378kW
	IT66420C-1200-2000	2000A	420kW		IT66420C-1600-1400	1400A	420kW		IT66420C-2250-1000	1000A	420kW

For more models, pls. contact ITECH.

IT6000B Regenerative

Power System

IT6000C Bidirectional

Programmable DC Power Supply

FEATURES

- Adopts SiC-base technology, integrates source and sink function in one unit
- High power density up to 18kW in compact 3U rack space, expandable up to 2MW by paralleling
- Output voltage up to 2250V
- Output current up to 8000A
- Equipped with SAS1000 to support solar array I-V curves simulation
- High regenerative efficiency up to 95%
- Bi-directional power transfer, seamless switch between sourcing and sinking
- Partial pre-compliant with LV123, LV148, DIN40839, ISO-16750-2, SAEJ1113-11,LV124 and ISO21848 automotive testing standards
- Could be used as battery simulator(with optional BSS2000 Software)

	Model	Current	Power
80V	IT6005B/C-80-150	150A	5kW
	IT6010B/C-80-300	300A	10kW
	IT6015B/C-80-450	450A	15kW
	IT6030B/C-80-900	900A	30kW
	IT6045B/C-80-1350	1350A	45kW
	IT6060B/C-80-1800	1800A	60kW
	IT6075B/C-80-2040	2040A	75kW
	IT6090B/C-80-2040	2040A	90kW
	IT6105B/C-80-2040	2040A	105kW
	IT6120B/C-80-2040	2040A	120kW

	Model	Current	Power
300V	IT6006B/C-300-75	75A	6kW
	IT6012B/C-300-150	150A	12kW
	IT6018B/C-300-225	225A	18kW
	IT6036B/C-300-450	450A	36kW
	IT6054B/C-300-675	675A	54kW
	IT6072B/C-300-900	900A	72kW
	IT6090B/C-300-1125	1125A	90kW
	IT6108B/C-300-1350	1350A	108kW
	IT6126B/C-300-1575	1575A	126kW
	IT6144B/C-300-1800	1800A	144kW

	Model	Current	Power
500V	IT6006B/C-500-40	40A	6kW
	IT6012B/C-500-80	80A	12kW
	IT6018B/C-500-120	120A	18kW
	IT6036B/C-500-240	240A	36kW
	IT6054B/C-500-360	360A	54kW
	IT6072B/C-500-480	480A	72kW
	IT6090B/C-500-600	600A	90kW
	IT6108B/C-500-720	720A	108kW
	IT6126B/C-500-840	840A	126kW
	IT6144B/C-500-960	960A	144kW

	Model	Current	Power
800V	IT6006B/C-800-25	25A	6kW
	IT6012B/C-800-50	50A	12kW
	IT6018B/C-800-75	75A	18kW
	IT6036B/C-800-150	150A	36kW
	IT6054B/C-800-225	225A	54kW
	IT6072B/C-800-300	300A	72kW
	IT6090B/C-800-375	375A	90kW
	IT6108B/C-800-450	450A	108kW
	IT6126B/C-800-525	525A	126kW
	IT6144B/C-800-600	600A	144kW

	Model	Current	Power
1500V	IT6018B/C-1500-40	40A	18kW
	IT6036B/C-1500-80	80A	36kW
	IT6054B/C-1500-120	120A	54kW
	IT6072B/C-1500-160	160A	72kW
	IT6090B/C-1500-200	200A	90kW
	IT6108B/C-1500-240	240A	108kW
	IT6126B/C-1500-280	280A	126kW
	IT6144B/C-1500-320	320A	144kW

	Model	Current	Power
2250V	IT6018B/C-2250-25	25A	18kW
	IT6036B/C-2250-50	50A	36kW
	IT6054B/C-2250-75	75A	54kW
	IT6072B/C-2250-100	100A	72kW
	IT6090B/C-2250-125	125A	90kW
	IT6108B/C-2250-150	150A	108kW
	IT6126B/C-2250-175	175A	126kW
	IT6144B/C-2250-200	200A	144kW

For more models, pls. contact ITECH.

IT-M3900B Regenerative

Power System

FEATURES

- 2 in 1 unit - a bidirectional power supply and a regenerative load
- One button switch between source and load on front panel
- Compact design, 1U@6kW, 2U@12kW
- Battery charge and discharge test
- Battery simulation
- Partial pre-compliant with LV123, LV148, DIN40839, ISO-16750-2, SAEJ1113-11,LV124 and ISO21848 automotive testing standards*1
- Simulation of dynamic driving conditions, up to 10 million points
- 8 operation modes under Source mode: CC/CV/CW/CR/CC+CV/CV+CR/CR+CC/CC+CV+CW+CR

*1 Not available for 10V models

IT-M3900C Bidirectional

Programmable DC Power Supply

FEATURES

- Compact design, power up to 6kW in 1U space, power up to 12kW in 2U space
- Wide range of output design, one unit can be used as multiple power supplies
- Bidirectional energy flow between the DUT and grid, seamless switching across quadrants
- Battery charging and discharging test
- With simple master/slave parallel connection, expand power while maintaining performance*1
- Battery simulation, define the battery model
- Support photovoltaic I-V curves simulation function*2
- Support CC/CV/ CW/CR in sink mode
- Support CC/CV/CW in Source mode, and can simulate DC output internal resistance

*1 If 1U models>16, 2U models>8, pls. contact ITECH.Parallel connection is not recommended under PV simulation function

*2 Only available for 85V models

	Model	Current	Power		Model	Current	Power		Model	Current	Power
10V	IT-M3901B/C-10-170	170A	1.7kW	32V	IT-M3902B/C-32-80	80A	2kW	80V	IT-M3902B/C-80-40	40A	2kW
	IT-M3903B/C-10-340	340A	3.4kW		IT-M3904B/C-32-160	120A	4kW		IT-M3904B/C-80-80	80A	4kW
	IT-M3905B/C-10-510	510A	5.1kW		IT-M3906B/C-32-240	240A	6kW		IT-M3906B/C-80-120	120A	6kW
	IT-M3910B/C-10-1020	1020A	10.2kW		IT-M3912B/C-32-480	480A	12kW		IT-M3912B/C-80-240	240A	12kW

	Model	Current	Power		Model	Current	Power		Model	Current	Power
85V	IT-M3902C-85-40SAS	40A	2kW	150V	IT-M3901C-150-25PV	25A	1kW	300V	IT-M3902B/C-300-20	20A	2kW
	IT-M3904C-85-80SAS	80A	4kW		IT-M3903C-150-50PV	50A	3kW		IT-M3904B/C-300-40	40A	4kW
	IT-M3906C-85-120SAS	120A	6kW						IT-M3906B/C-300-60	60A	6kW
									IT-M3912B/C-300-120	120A	12kW

	Model	Current	Power		Model	Current	Power		Model	Current	Power
500V	IT-M3902B/C-500-12	12A	2kW	800V	IT-M3902B/C-800-8	8A	2kW	1500V	IT-M3906B/C-1500-12	12A	6kW
	IT-M3904B/C-500-24	24A	4kW		IT-M3904B/C-800-16	16A	4kW		IT-M3912B/C-1500-24	24A	12kW
	IT-M3906B/C-500-36	36A	6kW		IT-M3906B/C-800-24	24A	6kW				
	IT-M3912B/C-500-72	72A	12kW		IT-M3912B/C-800-48	48A	12kW				

IT-M3600 Regenerative

Power System

FEATURES

- 1U half rack, high power density
- One button switch between source and load
- Bidirectional energy flow between DUT and grid *1
- Highly efficient power regeneration
- Battery test
- Battery simulation
- PV inverter I-V curve simulation
- 8 operating modes: CC/CV/CP/CR/CV+CC/CC+CR/CV+CR/CV+CC+CP+CR *2
- Independent control of multi-channels, implement synchronization or proportional tracking
- High-speed measurement, keep 10 times / s update rate evenconnecting 16 stand-alone units
- CC/CV priority

*1 only available for single unit *2 Multiple operation modes is only available under load function

Model	Voltage	Current	Power	Model	Voltage	Current	Power
IT-M3612	60V	30A	200W	IT-M3614	300V	6A	200W
IT-M3622	60V	30A	400W	IT-M3624	300V	6A	400W
IT-M3632	60V	30A	800W	IT-M3634	300V	6A	800W
IT-M3613	150V	12A	200W	IT-M3615	600V	3A	200W
IT-M3623	150V	12A	400W	IT-M3625	600V	3A	400W
IT-M3633	150V	12A	800W	IT-M3635	600V	3A	800W

IT-M3400 Bidirectional

DC Power Supply

FEATURES

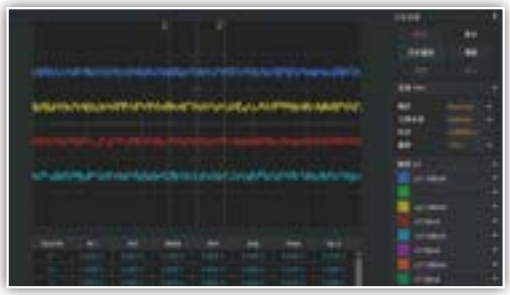
- 1U Half-rack, high power density
- Bidirectional energy flow
- High efficient power regeneration
- Battery test
- Battery simulation
- CC/CV priority
- Independent control of multi-channels with functions of synchronization and proportional tracking
- High speed measurement, 10 times/S updating rate
- Adjustable output impedance
- Programmable voltage and current rise and fall time

Model	Voltage	Current	Power	Model	Voltage	Current	Power
IT-M3412	60V	30A	200W	IT-M3414	300V	6A	200W
IT-M3422	60V	30A	400W	IT-M3424	300V	6A	400W
IT-M3432	60V	30A	800W	IT-M3434	300V	6A	800W
IT-M3413	150V	12A	200W	IT-M3415	600V	3A	200W
IT-M3423	150V	12A	400W	IT-M3425	600V	3A	400W
IT-M3433	150V	12A	800W	IT-M3435	600V	3A	800W

IT2700 Multi-channel

Modular Power System

8 channels



synchronization

FEATURES

- ATE systems for R&D, design verification and manufacturing
- Compact size: 1U single unit outputs up to 8 channels
- Flexible modular system: mix and match various modules
- 2 mainframes (1U), 3 module types (DC power supply, bidirectional power supply,regenerative load)
- Free PC software, display 8-channel output
- Support Web control, use common browser to realize all functions
- The electrically isolated source load module supports 8 modules in master-slave parallel connection up to 2kW*1
- Load function: support CC, CV, CP, CR, CC+CV, CR+CV, CP+CV, CC+CR, AUTO,BSIM(battery simulation)
- Supports automatic switching for CV, CC, and CP, with selectable CC & CV priority,nd internal resistance setting

*1 One chassis supports only one set of master-slave parallel connections

Voltage	Current	Power	DC power supply *1	Bidirectional DC power supply *1	Regenerative DC load *1	SMU module *2
±20V	±3A	±20W (2 slots occupied)				IT27814(E)
20V	50A	500W*3 (2 slots occupied)	IT27153/IT27153R	IT27353/IT27353R	IT27553/IT27553R	
30V	15A	200W	IT27134/IT27134R	IT27334/IT27334R	IT27534/IT27534R	
	30A	500W (2 slots occupied)	IT27154/IT27154R	IT27354/IT27354R	IT27554/IT27554R	
60V	10A	200W	IT27135/IT27135R	IT27335/IT27335R	IT27535/IT27535R	
	20A	500W (2 slots occupied)	IT27155/IT27155R	IT27355/IT27355R	IT27555/IT27555R	
150V	5A	200W	IT27137/IT27137R	IT27337/IT27337R	IT27537/IT27537R	
	10A	500W (2 slots occupied)	IT27157/IT27157R	IT27357/IT27357R	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)					

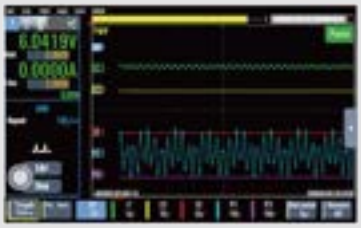
*1 IT27xxx should be equipped with IT2702/ IT2704/IT2705 ; IT27xxxR should be equipped with IT2703

*2 SMU module should be equipped with IT2705 or IT2702 mainframe.

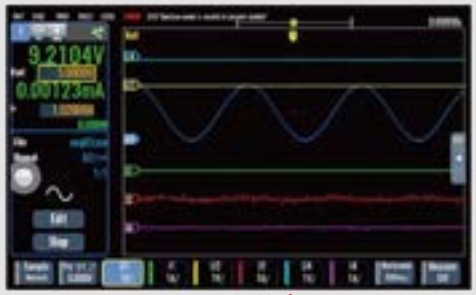
*3 20V/50A/500W module could only be equipped with 1U mainframe.

IT2705 Modular

DC Power Analyzer



Datalogger Mode
up to 20μs Sampling Interval



Scope Mode
200kHz Sampling Rate

Meter Mode
24-bit ADC

FEATURES

Modular Design

- Supports 20 modules (including DC sources, Regenerative E-Loads, bidirectional power supply, SMU)
- Up to 8 modules can be installed, separate control and isolation between channels
- Supports dual master-slave parallel setup for easy power range expansion *1

*1 IT27814/IT27814E can be parallel connection only under CC mode.

Multiple Functions

- Support LIST programming, sequence output, battery testing/simulation, user-defined waveform, and sine sweep functions, etc

EIS Electrochemical Impedance Analysis

- IT27814 with built-in EIS, auto-generating Nyquist and Bode plots

Graphical User Interface

- Icon-guided menu interface for easy operation

High-Speed Sampling and Data Logging

- Voltage and current sampling rate up to 200 kSa/s (scope mode)
- Multi-channel logging from seconds to days, with built-in power consumption statistics
- 20 μs minimum-interval data logging

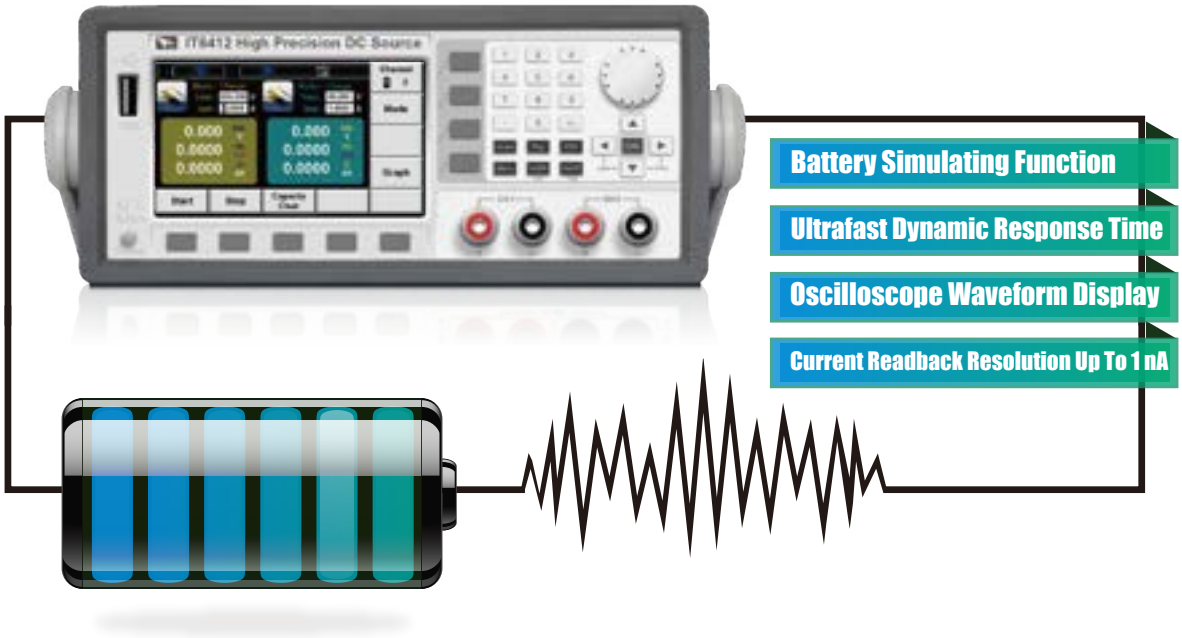
Communication Interfaces

- Standard USB/LAN/CAN/DigitIO interfaces with free PV2700 control software included

Frame（5U）	Voltage	Current	Power	DC souce(+P/+I)	Bidirectional DC source(±P/±I)	Regenerative load(-P/-I)	SMU(±U/±I)
IT2705	20V	3A	20W				IT27814/IT27814E
	30V	15A	200W	IT27134	IT27334	IT27534	
		30A	500W	IT27154	IT27354	IT27554	
	60V	10A	200W	IT27135	IT27335	IT27535	
		20A	500W	IT27155	IT27355	IT27555	
	150V	5A	200W	IT27137	IT27337	IT27537	
		10A	500W	IT27157	IT27357	IT27557	

IT6400 Bipolar

DC Power Supply



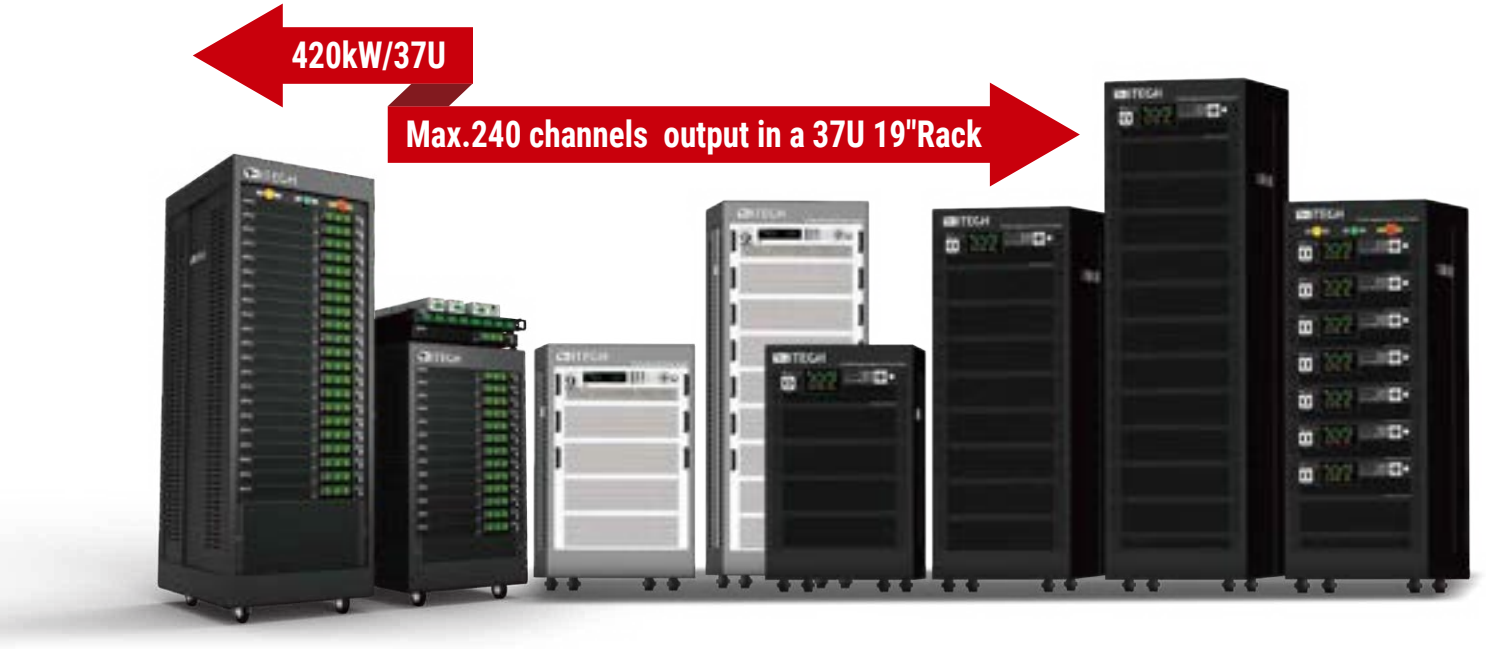
FEATURES

- Maximum output power of single channel up to 150 W, outputvoltage max. ±60 V, output current max. ±10A
- High performance color LCD display, dual channel output display main interface *1
- Bipolar dual-range output
- Accurate Battery Simulation
- Oscilloscope waveform display (DSO)
- Ultrafast transient response time < 20 μs
- Ultrafast voltage rising time up to 150 μs
- Current display resolution up to 1 nA
- Ultra-small current ripple up to 2 μArms
- Built-in high accuracy DVM
- Variable output impedance
- Applicable to portable battery power supplies test
- LED test no overcharged current
- Relay out function achieves electrical isolation on terminals
- High speed AD sampling
- List function achieves voltage/current output as programmed
- Standard interface LAN/USB/GPIB

*1 One chassis supports only one set of master-slave parallel connections

Model	Voltage	Current	Power	Channel
IT6402	CH1： -6V - 0V , 0 - 6V CH2： 0 - 6V	CH1： ±2A CH2： ±2A	CH1： 12W CH2： 12W	2
IT6411	±15V/±9V	±3A/±5A	45W	1
IT6411S	-15V~0V， 0~15V	±0.1 A	1.5 W	1
IT6412	CH1： ±15V/±9V CH2： 0~15V/0~9V	CH1： ±3A/±5A CH2： ±3A/±5A	CH1： 45W CH2： 45W	2
IT6412S	CH1： -15V~0V,0~15V CH2： 0~15V	CH1： ±0.1A CH2： ±0.1A	CH1： 1.5W CH2： 1.5W	2
IT6431	-15V~ 0V, 0~ 15V	±10 A	150W	1
IT6432	-30V~0V， 0~30V	±5A	150W	1
IT6432S	-30V~0V， 0~30V	±21mA	0.63W	1
IT6433	-60V-0V,0-60V	±2.5 A	150W	1

Modular ,Scalable and Powerful , Maximum Flexibility



Emergency stop protection module

The ITECH system cabinet offers an optional emergency stop module, allowing users to operate the system through control buttons for emergency stop, power-on, and power-off. In the event of a system abnormally, users can quickly disconnect the AC contactor at the AC input by pressing the emergency stop button, immediately halting the power output. After troubleshooting and confirming the system's safety, users can restart the system using the control buttons to resume normal operation. This emergency stop device provides a quick solution for handling emergencies, ensuring the safety and reliability of the system.

Anti-reverse and sparking protection module

ITECH products offer optional anti-reverse connection and anti-sparking modules for charging and discharging applications of batteries. These modules are installed between the DC output of the cabinet and the device under test, providing safe and reliable physical electrical isolation. This design effectively prevents sparking during wiring and avoids equipment damage caused by reverse polarity connections, ensuring the safety and reliability of the charging and discharging test process.

IT-E165A-250	Anti-reverse protection unit 750V/250A
IT-E165A-400	Anti-reverse protection unit 950V/400A
IT-E165A-750	Anti-reverse protection unit 1500V/750A
IT-E165A-1000	Anti-reverse protection unit 1500V/1000A

SAS1000

Solar Array Simulation Software

FEATURES

- Automatic wide range output, the voltage up to 2250V
- Power up to 10MW
- Simulate the output characteristics of various solar cell (monocrystal-line silicon cell, polysilicon cell, thin film cell) (Fill Factor)
- Simulate the I-V curve under different temperature, irradiation, and shadow conditions
- Static & dynamic MPPT efficiency test
- Built-in EN50530 / Sandia / NB/T32004 / CGC/GF004 / CGC/GF035 test program, and generate reports
- Graphical software interface, real-time test and display
- Auto program control 100 I-V curves via Vm, Pm, FF, materials, regulations and other parameter points
- 100 * 128 points curves and 4096 points precise programming control *1
- Support pre-program multiple IV curves（Vmp, Imp, Voc, Isc）and switch online *2
- List Mode New

*1 IT-M3600 supports 10 curves and 1024 points control under Table Mode
*2 Not applicable for IT6500C

Model table

SAS1000	Suitable for IT6600C series,IT6000C series, IT6000B series
SAS1000L	Suitable for IT6000C, IT6000B, IT-M3900PV&SAS and IT-M3600 series with power ≤15KW
SAS1000M	Multi-channel version, support up to 20 solar cell power supplies for multi-channel MPPT testing
SAS1100	100-Channel Photovoltaic Array Simulation Software *

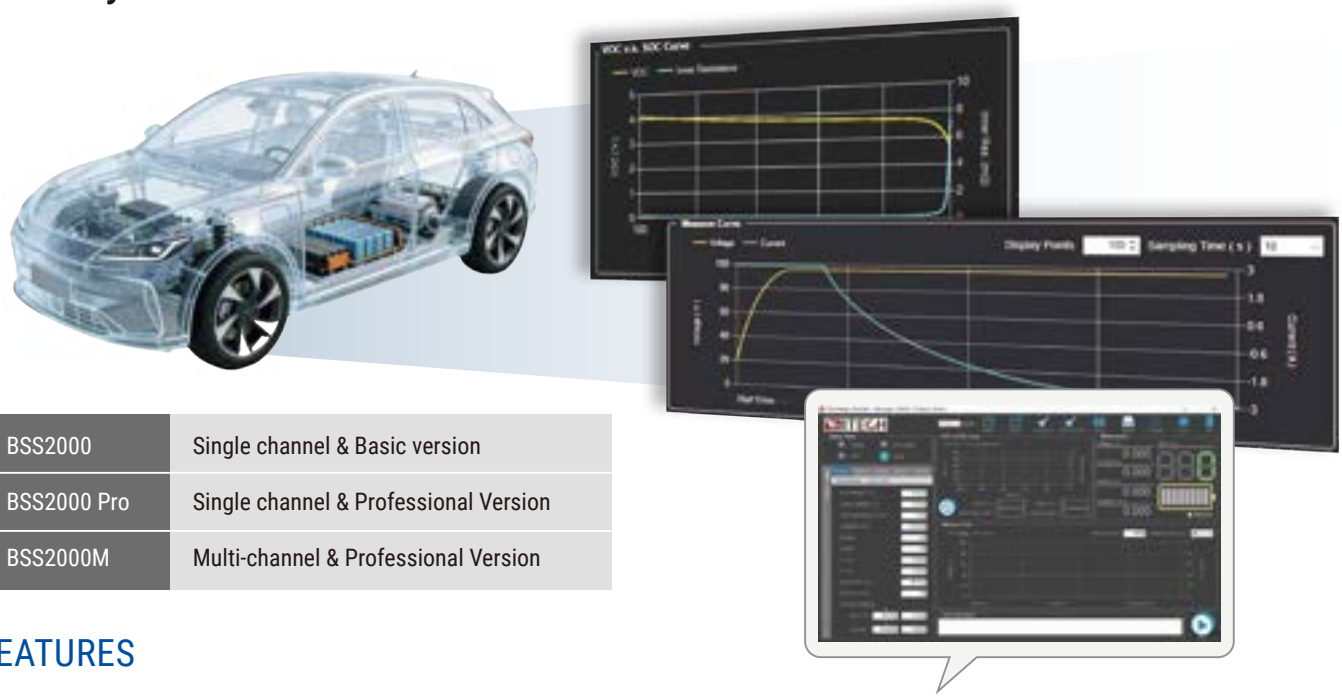
* For higher power test, please contact ITECH.
* For detailed information about the SAS1100 features, please contact ITECH.

Applicable model list

Series	Product Name	Specification
IT6600C	Bidirectional Programmable DC Power Supply	600V-2250V / 42kW-10MW
IT6000C	Bidirectional Programmable DC Power Supply	80~2250V / 5~2MW
IT6000B	Regenerative Power System	80~2250V / 5~2MW
IT-N2100	PV simulator	80V~150V / 800W~1500W
IT-M3600	Regenerative Power System	60~600V / 200W~800W
IT-M3900PV	PV simulator	150V / 1500W~3000W
IT-M3900SAS	PV simulator	85V / 2kW~6kW

BSS2000

Battery Simulation Software



BSS2000	Single channel & Basic version
BSS2000 Pro	Single channel & Professional Version
BSS2000M	Multi-channel & Professional Version

FEATURES

- Battery simulation range: 2250V/10MW
- Support up to 20ch batteries simulation*1
- Bidirectional regenerative battery simulator, regenerative efficiency up to 95%
- Seamless switching between battery charging and discharging mode
- Support user-defined battery characteristic curve import
- Support quick set up of battery characteristic curves by input common parameters
- Support .mat file import function*2
- Built-in various battery types (include LeadAcid, Li-on,LMO, LNMCO, LNMCO&LMO,LFP,LTO and NiMH .) *3
- Battery protection parameter setting function
- Initial SoC setting function
- Ideal data report function
- Battery curve preview and real-time curve display function
- Flexible expansion by parallel for larger current/power simulation request

*1 BSS2000M
*2 BSS2000 Pro/BSS2000M

*3 BSS2000 basic version software is used to simulate lead-acid and lithium-ion batteries.

FCS3000

fuel cell simulation software

Application fields

- Ship building（Fuel cell/lithium-ion battery ships, FC AIP submarine…）
- Rail transportation（HFC Tram…）
- EV (HFC bus, HFC passenger car…)
- Distributed energy (Fuel cell peak shaving…)

ITECH

YOUR POWER TESTING SOLUTION

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

YOUR POWER TESTING SOLUTION

ITECH
DC Electronic Load

YOUR POWER
TESTING SOLUTION

Schulz Electronic
Professional Power Supplies

IT8500G+ Programmable

DC Electronic Load

IT8500G+ IT8500+

Features of IT8500G+ series

- 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
- 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

*1 Only available with IT8511G+ *2 IT8511G+ comes standard with USB interface.

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

Learn More

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
- 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

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

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

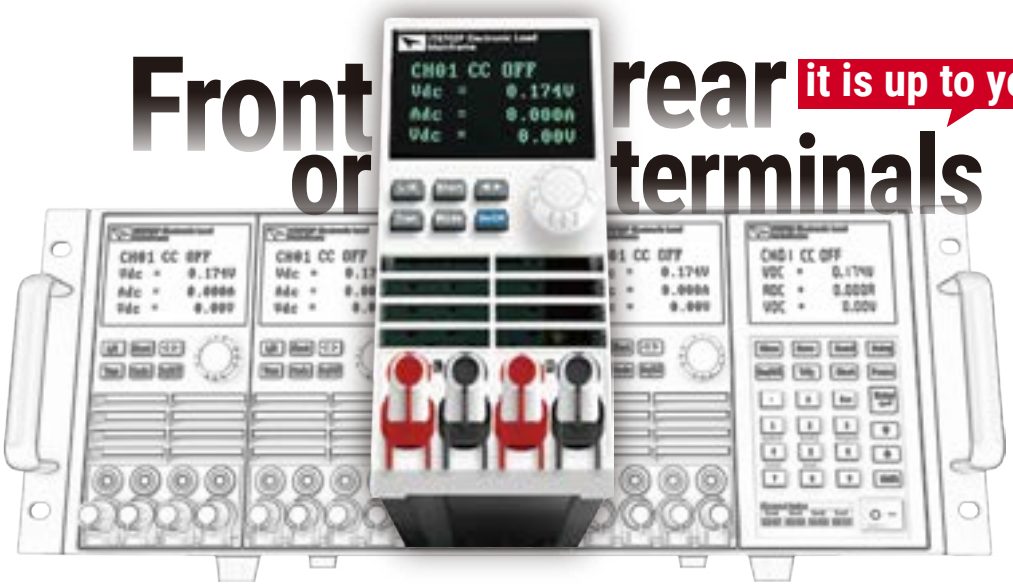
Model	Power	Voltage	Current	Size
IT8813C	750W	120V	120A	3U
IT8814	1.5kW	120V	120A	3U
IT8814B	1.2kW	500V	60A	3U
IT8814C	1.5kW	120V	240A	3U
IT8816	3kW	120V	240A	3U

For more models, pls. contact ITECH.

IT8700P/IT8700P+

Multi-channel Electronic Load

Learn More



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/OCP/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

For more models, pls. contact ITECH.

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.

IT8900G/L High Speed

High Performance Electronic Load

Learn more

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

Learn more

Conventional

30kW DC-load

24U

VS

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/OCP/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

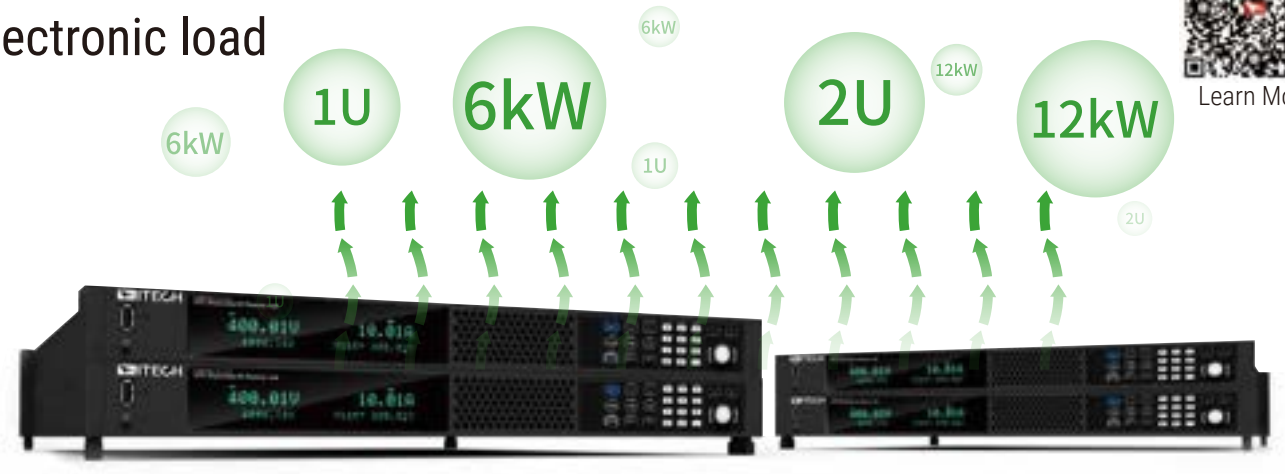
	Model	Current	Power		Model	Current	Power		Model	Current	Power
800V	IT8006-800-25	25A	6kW	1500V	IT8018-1500-40	40A	18kW	2250V	IT8018-2250-25	25A	18kW
	IT8012-800-50	50A	12kW		IT8036-1500-80	80A	36kW		IT8036-2250-50	50A	36kW
	IT8018-800-75	75A	18kW		IT8054-1500-120	120A	54kW		IT8054-2250-75	75A	54kW
	IT8036-800-150	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

Learn More



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 / ±OCP / ±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

Learn More

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 Anaylzer

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）		

*1T27xxx 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

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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

Schulz Electronic
Professional Power Supplies

V1.0

ITECH

YOUR POWER TESTING SOLUTION

ITECH

AC Source and Load Selection Guide

Schulz Electronic
Professional Power Supplies

YOUR POWER
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Grid Simulator

Series	Output voltage V L-N	Output power	Output modes	Phase	Frequency	Communication
IT7900 HV	700V/1050V	90kVA to 900kVA	AC,AC+DC	3Φ	16-100Hz	USB,CAN,LAN,Digital IO optional GPIB,Analog&RS-232
IT7900	350V	3kVA to 165kVA……960kVA	AC,DC,AC+DC, DC+AC	1Φ,3Φ, reversed phase	16-150Hz	USB,CAN,LAN,Digital IO optional GPIB,Analog&RS-232
IT7900E	350V	21kVA to 231kVA……1MVA+	AC,DC,AC+DC, DC+AC	1Φ,3Φ, reversed phase	16-150Hz	USB,CAN,LAN,Digital IO optional GPIB,Analog&RS-232
IT7900P	350V	3kVA to 165kVA……960kVA	AC,DC,AC+DC, DC+AC	1Φ,3Φ, reversed phase	16-2400Hz	USB,CAN,LAN,Digital IO optional GPIB,Analog&RS-232
IT7900EP	350V	21kVA to 231kVA……1MVA+	AC,DC,AC+DC, DC+AC	1Φ,3Φ, reversed phase	16-2400Hz	USB,CAN,LAN,Digital IO optional GPIB,Analog&RS-232

Source-Load All-in-1,21kVA in 3U

IT7900EP series
High Performance Regenerative Grid Simulator

IT7900EP=IT7800E+IT7900E+IT8200E

- Up to 21 kVA for 3U
- Highly efficient power regeneration
- Power output up to 1MVA after master-slave parrallel connection
- Regenerative grid simulator & full 4-Quadrant AC&DC power sources
- Power Amplifier function for PHiL applications
- Regenerative full 4-Quadrant AC&DC load
- Compliance tests incl. LVRT /Phase Jump/Frequency variation/ harmonic injection
- Build-in waveforms IEC61000-4-11/4-13/4-14/4-17/4-28/4-29/3-2/3-12
- CE Mode: Simulation of 14 Circuit Topologies Including Single-Phase Rectifier RLC and Parallel RLC
- Phase Shift Function (-180° to +180°) *1

*1 After turning on the rectification function, the setting range of the phase shift is restricted by the crest factor

Model	Output voltage Vac		Output current Aac		Output power Pac	Phase	Height
	V L-N	V L-L	Arms(1Φ)	Arms(3Φ)			
IT7921EP-350-105	350V	606V	105A	35A	21kVA	1Φ,3Φ,reversed phase	3U
IT7942EP-350-210	350V	606V	210A	70A	42kVA	1Φ,3Φ,reversed phase	6U
IT7963EP-350-315	350V	606V	315A	105A	63kVA	1Φ,3Φ,reversed phase	15U
IT7984EP-350-420	350V	606V	420A	140A	84kVA	1Φ,3Φ,reversed phase	27U
IT79105EP-350-525	350V	606V	525A	175A	105kVA	1Φ,3Φ,reversed phase	27U
IT79126EP-350-630	350V	606V	630A	210A	126kVA	1Φ,3Φ,reversed phase	27U
IT79147EP-350-735	350V	606V	735A	245A	147kVA	1Φ,3Φ,reversed phase	27U
IT79168EP-350-840	350V	606V	840A	280A	168kVA	1Φ,3Φ,reversed phase	37U
IT79189EP-350-945	350V	606V	945A	315A	189kVA	1Φ,3Φ,reversed phase	37U
IT79210EP-350-1050	350V	606V	1050A	350A	210kVA	1Φ,3Φ,reversed phase	37U
IT79231EP-350-1155	350V	606V	1155A	385A	231kVA	1Φ,3Φ,reversed phase	37U

IT7900P=IT7800+IT7900+IT8200

All-in-1 Regenerative AC&DC

IT7900P series
High Performance Regenerative Grid Simulator

- 3U up to 15kVA
- Highly efficient power regeneration
- Power output up to 960kVA after master-slave parrallel connection
- Regenerative grid simulator with full four-quadrant AC/DC source and load functionality
- Power amplifier function for PHiL applications
- Regenerative full 4-quadrant AC&DC load
- Multi-channel function, single unit can test 1-3 DUTs at the same time*1
- Frequency lock and phase lock function to achieve 6 phase & 12 phase power output
- Compliance tests incl. LVRT /Phase Jump/Frequency variation/ harmonic injection
- CE Mode: simulation of 14 circuit topologies Including single-phase rectifier RLC and parallel RLC
- Phase shift function (-180° to +180°) *2
- Build-in waveforms IEC61000-4-11/4-13/4-14/4-17/4-28/4-29/ 3-2/3-12
- Provide rich trigger configuration

*1 Not available for single-phase models

*2 After turning on the rectification function, the setting range of the phase shift is restricted by the crest factor

Model	Output voltage Vac		Output current Aac		Output power Pac	Phase	Height
	V L-N	V L-L	Arms(1Φ)	Arms(3Φ)			
IT7905P-350-30U	350V	—	30A	—	5kVA	1Φ	3U
IT7906P-350-90	350V	606V	90A	30A	6kVA	1Φ,3Φ,reversed phase	3U
IT7909P-350-90	350V	606V	90A	30A	9kVA	1Φ,3Φ,reversed phase	3U
IT7912P-350-90	350V	606V	90A	30A	12kVA	1Φ,3Φ,reversed phase	3U
IT7915P-350-90	350V	606V	90A	30A	15kVA	1Φ,3Φ,reversed phase	3U
IT7930P-350-180	350V	606V	180A	60A	30kVA	1Φ,3Φ,reversed phase	6U
IT7945P-350-270	350V	606V	270A	90A	45kVA	1Φ,3Φ,reversed phase	15U
IT7960P-350-360	350V	606V	360A	120A	60kVA	1Φ,3Φ,reversed phase	27U
IT7975P-350-450	350V	606V	450A	150A	75kVA	1Φ,3Φ,reversed phase	27U
IT7990P-350-540	350V	606V	540A	180A	90kVA	1Φ,3Φ,reversed phase	27U
IT79105P-350-630	350V	606V	630A	210A	105kVA	1Φ,3Φ,reversed phase	27U
IT79120P-350-720	350V	606V	720A	240A	120kVA	1Φ,3Φ,reversed phase	37U
IT79135P-350-810	350V	606V	810A	270A	135kVA	1Φ,3Φ,reversed phase	37U
IT79150P-350-900	350V	606V	900A	300A	150kVA	1Φ,3Φ,reversed phase	37U
IT79165P-350-990	350V	606V	990A	330A	165kVA	1Φ,3Φ,reversed phase	37U

Grid Simulator

IT7900E series Regenerative Grid Simulator

- 3U up to 21kVA
- Power output up to 1MVA after master-slave parrallel connection
- Regenerative grid simulator & full 4-Quadrant AC&DC power sources
- Power amplifier function for PHiL applications
- Three working modes：CV/CC/CP
- Harmonics and interharmonics waveform synthesizer
- AC, DC, AC+DC or DC+AC output capability
- Programmable output impedance
- Compliance tests incl LVRT /Phase Jump/Frequency variation/Harmonic Injection
- Build-in waveforms IEC61000-4-11/4-13/4-14/4-17/4-28/4-29/3-2/3-12
- Power line disturbance simulation testing by LIST programming/SWEEP/Surge&Sag functions
- Up to 50th harmonic simulation and analysis function is included*1

*1 Voltage/current harmonic analysis

Model	Output voltage Vac		Output current Aac		Output power Pac	Phase	Height
	V L-N	V L-L	Arms(1Φ)	Arms(3Φ)			
IT7921E-350-105	350V	606V	105A	35A	21kVA	1Φ,3Φ,reversed phase	3U
IT7942E-350-210	350V	606V	210A	70A	42kVA	1Φ,3Φ,reversed phase	6U
IT7963E-350-315	350V	606V	315A	105A	63kVA	1Φ,3Φ,reversed phase	15U
IT7984E-350-420	350V	606V	420A	140A	84kVA	1Φ,3Φ,reversed phase	27U
IT79105E-350-525	350V	606V	525A	175A	105kVA	1Φ,3Φ,reversed phase	27U
IT79126E-350-630	350V	606V	630A	210A	126kVA	1Φ,3Φ,reversed phase	27U
IT79147E-350-735	350V	606V	735A	245A	147kVA	1Φ,3Φ,reversed phase	27U
IT79168E-350-840	350V	606V	840A	280A	168kVA	1Φ,3Φ,reversed phase	37U
IT79189E-350-945	350V	606V	945A	315A	189kVA	1Φ,3Φ,reversed phase	37U
IT79210E-350-1050	350V	606V	1050A	350A	210kVA	1Φ,3Φ,reversed phase	37U
IT79231E-350-1155	350V	606V	1155A	385A	231kVA	1Φ,3Φ,reversed phase	37U

Grid Simulator

IT7900 series
Regenerative Grid Simulator

- 6kVA in 1U/2U,15kVA in 3U
- Regenerative grid simulator & full 4-Quadrant AC&DC power sources
- Power amplifier function for PHiL test
- Professional anti-islanding test mode*1
- Comprehensive working modes selectable: single-phase,three-phase, reversed phase and multi-channel*2
- Build-in waveforms IEC61000-4-11/4-13/4-14/4-17/4-28/ 4-29/3-2/3-12
- Current source mode
- Harmonics and interharmonics waveform synthesizer
- Provide rich trigger configuration
- Frequency lock and phase lock function to achieve 6 phase & 12 phase power output

*1 Not available for multi-channel function

*2 <6kVA models only support single-phase function

Model	Output voltage Vac		Output current Aac		Output power Pac	Phase	Height	Front panel
	V L-N	V L-L	Arms(1Φ)	Arms(3Φ)				
IT7902-350-10U-ATE	350V	–	10A	–	2kVA	1Φ	1U	–
IT7902-350-10U	350V	–	10A	–	2kVA	1Φ	2U	touch screen
IT7904-350-20U-ATE	350V	–	20A	–	4kVA	1Φ,reversed phase	1U	–
IT7904-350-20U	350V	–	20A	–	4kVA	1Φ,reversed phase	2U	touch screen
IT7905-350-30U	350V	–	30A	–	5kVA	1Φ	3U	touch screen
IT7906-350-30-ATE	350V	606V	30A	10A	6kVA	1Φ,3Φ,reversed phase	1U	–
IT7906-350-30	350 V	606V	30A	10A	6kVA	1Φ,3Φ,reversed phase	2U	touch screen
IT7906-350-90	350 V	606V	90A	30A	6kVA	1Φ,3Φ,reversed phase	3U	touch screen
IT7909-350-90	350 V	606V	90A	30A	9kVA	1Φ,3Φ,reversed phase	3U	touch screen
IT7912-350-90	350 V	606V	90A	30A	12kVA	1Φ,3Φ,reversed phase	3U	touch screen
IT7915-350-90	350 V	606V	90A	30A	15kVA	1Φ,3Φ,reversed phase	3U	touch screen
IT7930-350-180	350 V	606V	180A	60A	30kVA	1Φ,3Φ,reversed phase	6U	touch screen
IT7945-350-270	350 V	606V	270A	90A	45kVA	1Φ,3Φ,reversed phase	15U	touch screen
IT7960-350-360	350 V	606V	360A	120A	60kVA	1Φ,3Φ,reversed phase	27U	touch screen
IT7975-350-450	350 V	606V	450A	150A	75kVA	1Φ,3Φ,reversed phase	27U	touch screen
IT7990-350-540	350 V	606V	540A	180A	90kVA	1Φ,3Φ,reversed phase	27U	touch screen
IT79105-350-630	350 V	606V	630A	210A	105kVA	1Φ,3Φ,reversed phase	27U	touch screen
IT79120-350-720	350 V	606V	720A	240A	120kVA	1Φ,3Φ,reversed phase	37U	touch screen
IT79135-350-810	350 V	606V	810A	270A	135kVA	1Φ,3Φ,reversed phase	37U	touch screen
IT79150-350-900	350 V	606V	900A	300A	150kVA	1Φ,3Φ,reversed phase	37U	touch screen
IT79165-350-990	350 V	606V	990A	330A	165kVA	1Φ,3Φ,reversed phase	37U	touch screen

High Voltage Grid Simulator

IT7900 series Regenerative Grid Simulator (HV)

- Voltage up to 700 VL-N, 1050 VL-N
- 16Hz~100Hz
- Used as regenerative grid simulator, four-quadrant source
- CV/Current Limit/Power Limit
- AC, AC+DC output capability
- Three-phase output capability
- Programmable output impedance, power impedance simulation
- LVRT /Phase Jump/Frequency variation /Harmonic Injection
- Harmonic and interharmonic waveform synthesis
- LIST/SWEEP simulate grid disturbances
- Voltage and current harmonics measurement, up to 50 times*1
- Relay Ctrl output for electrical isolation between DUT and grid simulator
- Built-in USB/CAN/LAN/LXI compliant LAN interface/DigitalIO,optional GPIB /RS232

*1 Voltage and current harmonic analysis, Voltage harmonic simulation

Model	Output voltage Vac		Output current Aac	Output power Pac	Phase	Height
	V L-N	V L-L	Arms(3Φ)			
IT7990-700-90	700V	1200V	90A	90kVA	3Φ	27U
IT79180-700-180	700V	1200V	180A	180kVA	3Φ	27U*2
IT79270-700-270	700V	1200V	270A	270kVA	3Φ	27U*3
IT79360-700-360	700V	1200V	360A	360kVA	3Φ	27U*4
IT79450-700-450	700V	1200V	450A	450kVA	3Φ	27U*5
IT79540-700-540	700V	1200V	540A	540kVA	3Φ	27U*6
IT79630-700-630	700V	1200V	630A	630kVA	3Φ	27U*7
IT79720-700-720	700V	1200V	720A	720kVA	3Φ	27U*8
IT79810-700-810	700V	1200V	810A	810kVA	3Φ	27U*9
IT79900-700-900	700V	1200V	900A	900kVA	3Φ	27U*10
IT79135-1050-90	1050V	1818V	90A	135kVA	3Φ	37U
IT79270-1050-180	1050V	1818V	180A	270kVA	3Φ	37U*2
IT79405-1050-270	1050V	1818V	270A	405kVA	3Φ	37U*3
IT79540-1050-360	1050V	1818V	360A	540kVA	3Φ	37U*4
IT79675-1050-450	1050V	1818V	450A	675kVA	3Φ	37U*5
IT79810-1050-540	1050V	1818V	540A	810kVA	3Φ	37U*6

Programmable AC Power Supply

Model	Output voltage V L-N	Output power	Output modes	Phase	Frequency	Communication
IT7800	350V	3kVA to 165kVA……960kVA	AC,DC,AC+DC, DC+AC	1Φ,3Φ, reversed phase	16-2400Hz	USB,CAN,LAN,Digital IO optional GPIB,Analog&RS-232
IT7800E	350V	21kVA to 231kVA……1MVA+	AC,DC,AC+DC, DC+AC	1Φ,3Φ, reversed phase	16-2400Hz	USB,CAN,LAN,Digital IO optional GPIB,Analog&RS-232
IT7800 HV	700V/1050V	90kVA to 900kVA	AC,AC+DC	3Φ	16-100Hz	USB,CAN,LAN,Digital IO optional GPIB,Analog&RS-232
IT7600	300V	750VA to 3kVA	AC,DC,AC+DC	1Φ	10-5000Hz	USB,RS232,LAN,CAN
IT-M7700	300V/600V	300VA to 1500VA	AC,DC,AC+DC	1Φ	45Hz-1000Hz	USB,LAN optional GPIB,CAN,Analog&RS-232
IT7200	300V	300VA,600VA	AC,DC,AC+DC	1Φ	45Hz-500Hz	USB,LAN
IT7300	300V	300VA to 9000VA	AC	1Φ or 3Φ	45Hz-500Hz	USB,LAN,RS-232

High Power Programmable AC/DC Power Supply

IT7800E series

High power programmable AC/DC power supply

- 3U up to 21kVA
- Power output up to 1MVA after master-slave parrallel connection
- Up to 50th harmonic simulation and analysis*1
- Output frequency: 16-2400Hz
- Built-in single/3-phase AC power meter
- 4 output modes: AC/DC/AC+DC/DC+AC
- Harmonics, inter-harmonics waveform synthesizer
- Programmable output impedance
- High current crest factor, suitable for inrush current testing*2
- Simulate arbitrary waveform output, support csv. file import
- List mode simulates the power supply reproduction function to realize the simulation function of instantaneous power interruption
- Surge/Sag function
- Build-in waveforms IEC61000-4-11/4-13/4-14/4-17/4-28/4-29/3-2/3-12
- Optional specialized APS4000 aerospace power system simulation software

*1 Voltage and current harmonic analysis / Voltage harmonic simulation

*2 Maximum CF is up to 6 within peak currnt range

Model	Output voltage Vac		Output current Aac		Output power Pac	Phase	Height
	V L-N	V L-L	Arms(1Φ)	Arms(3Φ)			
IT7821E-350-105	350V	606V	105A	35A	21kVA	1Φ,3Φ,reversed phase	3U
IT7842E-350-210	350V	606V	210A	70A	42kVA	1Φ,3Φ,reversed phase	6U
IT7863E-350-315	350V	606V	315A	105A	63kVA	1Φ,3Φ,reversed phase	15U
IT7884E-350-420	350V	606V	420A	140A	84kVA	1Φ,3Φ,reversed phase	27U
IT78105E-350-525	350V	606V	525A	175A	105kVA	1Φ,3Φ,reversed phase	27U
IT78126E-350-630	350V	606V	630A	210A	126kVA	1Φ,3Φ,reversed phase	27U
IT78147E-350-735	350V	606V	735A	245A	147kVA	1Φ,3Φ,reversed phase	27U
IT78168E-350-840	350V	606V	840A	280A	168kVA	1Φ,3Φ,reversed phase	37U
IT78189E-350-945	350V	606V	945A	315A	189kVA	1Φ,3Φ,reversed phase	37U
IT78210E-350-1050	350V	606V	1050A	350A	210kVA	1Φ,3Φ,reversed phase	37U
IT78231E-350-1155	350V	606V	1155A	385A	231kVA	1Φ,3Φ,reversed phase	37U

High Power Programmable AC Power Supply

IT7800 series
High power programmable AC/DC power supply

- 3U up to 15kVA, 1U/2U up to 6KVA
- Multi-channel function, single unit can connect/test up to 3 DUTs *1
- Output frequency: 16-2400Hz
- 4 output modes: AC/DC/AC+DC/DC+AC
- Harmonics, inter-harmonics waveform synthesizer
- Current source mode
- Provide rich trigger configuration
- Frequency lock and phase lock function to achieve 6 phase & 12 phase power output
- Supported regulatory testing include IEC61000-4-11/4-13/4-14/4-17/4-28/4-29/3-2/3-12
- Optional specialized APS4000 aerospace power system simulation software

*1 This feature is not available on single-phase models.

Model	Output voltage Vac		Output current Aac		Output power Pac	Phase	Height	Front panel
	V L-N	V L-L	Arms(1Φ)	Arms(3Φ)				
IT7802-350-10U-ATE	350V	–	10A	–	2kVA	1Φ	1U	–
IT7802-350-10U	350V	–	10A	–	2kVA	1Φ	2U	touch screen
IT7802-350-30-ATE	350V	606V	30A	10A	2.1kVA	1Φ,3Φ,reversed phase	1U	–
IT7802-350-30	350V	606V	30A	10A	2.1kVA	1Φ,3Φ,reversed phase	2U	touch screen
IT7803-350-30U	350V	–	30A	–	3kVA	1Φ	3U	touch screen
IT7803J-350-30U*1	350V	–	30A	–	3kVA	1Φ	3U	touch screen
IT7803-350-30-ATE	350V	606V	30A	10A	3kVA	1Φ,3Φ,reversed phase	1U	–
IT7803-350-30	350V	606V	30A	10A	3kVA	1Φ,3Φ,reversed phase	2U	touch screen
IT7804-350-20U-ATE	350V	–	20A	–	4kVA	1Φ,reversed phase	1U	–
IT7804-350-20U	350V	–	20A	–	4kVA	1Φ,reversed phase	2U	touch screen
IT7805-350-30U	350V	–	30A	–	5kVA	1Φ	3U	touch screen
IT7806-350-30-ATE	350V	606V	30A	10A	6kVA	1Φ,3Φ,reversed phase	1U	–
IT7806-350-30	350V	606V	30A	10A	6kVA	1Φ,3Φ,reversed phase	2U	touch screen
IT7806-350-90	350V	606V	90A	30A	6kVA	1Φ,3Φ,reversed phase	3U	touch screen
IT7809-350-90	350V	606V	90A	30A	9kVA	1Φ,3Φ,reversed phase	3U	touch screen
IT7812-350-90	350V	606V	90A	30A	12kVA	1Φ,3Φ,reversed phase	3U	touch screen
IT7815-350-90	350V	606V	90A	30A	15kVA	1Φ,3Φ,reversed phase	3U	touch screen
IT7830-350-180	350V	606V	180A	60A	30kVA	1Φ,3Φ,reversed phase	6U	touch screen
IT7845-350-270	350V	606V	270A	90A	45kVA	1Φ,3Φ,reversed phase	15U	touch screen
IT7860-350-360	350V	606V	360A	120A	60kVA	1Φ,3Φ,reversed phase	27U	touch screen
IT7875-350-450	350V	606V	450A	150A	75kVA	1Φ,3Φ,reversed phase	27U	touch screen
IT7890-350-540	350V	606V	540A	180A	90kVA	1Φ,3Φ,reversed phase	27U	touch screen
IT78105-350-630	350V	606V	630A	210A	105kVA	1Φ,3Φ,reversed phase	27U	touch screen
IT78120-350-720	350V	606V	720A	240A	120kVA	1Φ,3Φ,reversed phase	37U	touch screen
IT78135-350-810	350V	606V	810A	270A	135kVA	1Φ,3Φ,reversed phase	37U	touch screen
IT78150-350-900	350V	606V	900A	300A	150kVA	1Φ,3Φ,reversed phase	37U	touch screen
IT78165-350-990	350V	606V	990A	330A	165kVA	1Φ,3Φ,reversed phase	37U	touch screen

*1 Single-phase AC input terminal * For higher power, please call for availability * The above specifications are subject to change without prior notice.

High Voltage high power AC power supply

IT7800 series
High Power Programmable AC Power Supply (HV)

- Voltages up to 700 VL-N, 1050 VL-N
- Output frequency: 16-100Hz, voltage and frequency output variation rate adjustable
- Built-in AC power meter
- AC/AC+DC output mode possible
- Three-phase output
- Harmonic and interharmonic waveform synthesis
- Programmable output impedance
- Touch screen design, simple UI interface
- Arbitrary waveform output can be simulated, and CSV file import waveform is supported
- Built-in rich waveform database
- List mode analog utility reproduction function, realizing the instantaneous power interruption simulation function
- Output start/stop phase angle can be set from 0 to 360°
- Relay Ctrl relay control output function for electrical isolation between the DUT and the source
- Built-in USB/CAN/LAN/digital IO interface, optional GPIB/RS232 interface

Model	Output voltage Vac		Output current Aac	Output power Pac	Phase	Height
	V L-N	V L-L	Arms(3Φ)			
IT7890-700-90	700V	1200V	90A	90kVA	3Φ	27U
IT78180-700-180	700V	1200V	180A	180kVA	3Φ	27U*2
IT78270-700-270	700V	1200V	270A	270kVA	3Φ	27U*3
IT78360-700-360	700V	1200V	360A	360kVA	3Φ	27U*4
IT78450-700-450	700V	1200V	450A	450kVA	3Φ	27U*5
IT78540-700-540	700V	1200V	540A	540kVA	3Φ	27U*6
IT78630-700-630	700V	1200V	630A	630kVA	3Φ	27U*7
IT78720-700-720	700V	1200V	720A	720kVA	3Φ	27U*8
IT78810-700-810	700V	1200V	810A	810kVA	3Φ	27U*9
IT78900-700-900	700V	1200V	900A	900kVA	3Φ	27U*10
IT78135-1050-90	1050V	1818V	90A	135kVA	3Φ	37U
IT78270-1050-180	1050V	1818V	180A	270kVA	3Φ	37U*2
IT78405-1050-270	1050V	1818V	270A	405kVA	3Φ	37U*3
IT78540-1050-360	1050V	1818V	360A	540kVA	3Φ	37U*4
IT78675-1050-450	1050V	1818V	450A	675kVA	3Φ	37U*5
IT78810-1050-540	1050V	1818V	540A	810kVA	3Φ	37U*6

Medium and Low Power AC/DC Power Supply

IT-M7700 series
High Performance Programmable AC Power Supply

- 1/2 1U up to 600VA, 1/2 2U up to 1500VA
- Large touch screen display, providing waveform and data display modes (available on M7723P) *3
- AC, DC, AC+DC output modes
- Built-in AC power meter
- Built-in abundant waveform database, including 30 harmonic distortion waveforms*1
- List mode, simulate civil AC working condition, realize instantaneous power interruption simulation function *1*2
- Arbitrary waveform output function, users enabls to customize waveforms*1
- Up to 50th harmonic analysis and simulation function*1
- Built-in IEC61000-4-11, 4-13, 4-14, 4-28 waveforms (available for M7723P) *3
- Surge/Trap function*1
- Front and rear edge Dimmer phase dimming function*1
- Settable output waveform start/stop phase angle
- Standard USB/LAN interface*1, optional accessories such as IT-E1205 (GPIB), IT-E1207 (RS232 & CAN), IT-E1208 (external analog & RS485), IT-E251 (multi-stage interconnecting running cable), etc.

*1 IT-M7721L/IT-M7722L does not have this function
*2 It is realized through the control software
*3 Functions available on the M7723P model

Model	Power(AC/DC)	Voltage	Current	Size
IT-M7721	300VA/300W	300V	3A	1/2 1U
IT-M7721L	300VA/300W	300V	3A	1/2 1U
IT-M7722D	300VA/300W	300V	3A	1/2 1U
IT-M7722	600VA/600W	300V	6A	1/2 1U
IT-M7723D	750VA/750W	300V	7.5A	1/2 2U
IT-M7722E	1000VA/1000W	300V	10A	1/2 2U
IT-M7723	1200VA/1200W	300V/600V	12A /6A	1U
IT-M7723E	1500VA/1500W	300V	15A	1/2 2U
IT-M7723P	1500VA/1500W	300V	15A	1/2 2U

Medium and Low Power AC Power Supply

IT7200 series
Programmable AC/DC Power Supply

- 2U half rack compact design, suitable for both bench top and ATE integration
- 300Vac L-N rated output, 45Hz-500Hz
- Output modes: AC, DC, AC+DC
- Built-in rich waveforms: Sine/Square/Triangle/Sawtooth/Clip sine
- Built-in AC power meter and up to 50th harmonic analysis capability
- Built-in rich waveform database, including 30 harmonic distortion waveforms
- Rich waveform editing functions: LIST/Surge&Trap/User-defined
- Up to 50th order harmonic simulation function
- The start/stop phase angle of the output waveform can be set
- Standard USB/LAN interface

Surge

Trap

Model	Power(AC/DC)	Voltage	Current	Size
IT7221	300VA/300W	300V	3A	1/2 2U
IT7222	600VA/600W	300V	6A	1/2 2U

Medium and Low Power AC Power Supply

IT7600 series
High Performance Programmable AC/DC Power Supply

- 7” DSO function, which can display real-time waveforms of voltage and current under the single unit or parallel mode
- Built-in AC power meter
- Output frequency up to 10-5000 Hz, output variable rate of voltage or frequency is adjustable
- Realize AC, DC, AC+DC output modes, AC+DC can realize simulating distortion of DC Voltage
- Built-in various waveform database
- Strong harmonic simulation capability, up to 50th harmonic simulation*1
- Strong harmonic analysis function, which can measure up to 50th voltage and current harmonic*1
- List mode can simulate civil use AC network, achieve simulation of instantaneous power interruption
- The output waveform start / stop phase angle can be set
- Support remote sense compensation function, which can improve measurement accuracy
- Sweep function, which can test the efficiency of switching power supply andcatch the voltage and frequency when reaching maximum power point
- Built-in USB / RS232 / LAN / CAN communication Interface
- USB on the front panel can achieve importing and exporting file functions and data storage function

*1 10Hz-500Hz

Model	Voltage	Current	Power	Phase
IT7622	150/300V	6A	750VA	1φ
IT7624	150/300V	12A	1500VA	1φ
IT7626	150/300V	24A	3000VA	1φ

Medium and Low Power AC Power Supply

IT7300 series Programmable AC Power Supply

- Precision Linear amplification technology, low noise, high stability
- Adjustable frequency:45HZ-500HZ
- Adjustable phase angle: 0-360°
- High current crest factor for inrush current testing
- TRIAC Dimmer dimming / governor simulation function
- Output the changed synchronous TTL signal
- LIST mode for testing power perturbation (PLD) simulation
- Simulate the surge, trap waveform
- Voltage dip, short interruption and voltage change simulation
- Measure various electrical parameters, including RMS voltage / current, actual power, power factor, VA (apparent power), peak current and other parameters
- Measurement resolution can reach 0.01W / 0.1mA, meet Energy Star standard requirement
- Built-in RS-232, USB and LAN (support SCPI protocol)
- OCP,OVP,OTP,OPP

Model	Voltage	Current	Power
IT7321	300V	3A	300VA
IT7322	300V	6A	750VA
IT7322H	500V	3A	750VA
IT7322HT	500V	3A	2250VA
IT7322T	300V	6A	2250VA
IT7324	300V	12A	1500VA
IT7324H	500V	6A	1500VA
IT7324HT	500V	6A	4500VA
IT7324T	300V	12A	4500VA
IT7326	300V	24A	3000VA
IT7326H	500V	12A	3000VA
IT7326HT	500V	12A	9000VA
IT7326T	300V	24A	9000VA

Programmable AC Load

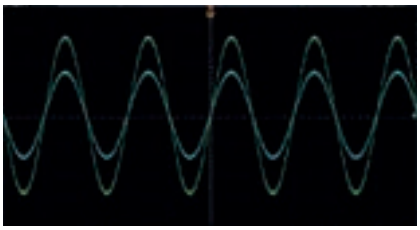
Model	Output voltage V L-N	Output power	Output modes	Phase	Frequency	Communication
IT8200	350V	3kVA to 165kVA……960kVA	AC,DC, AC+DC,DC+AC	1Φ,3Φ, reversed phase	16-500Hz	USB,CAN,LAN,Digital IO optional GPIB,Analog&RS-232
IT8200E	350V	21kVA to 231kVA……1MVA+	AC,DC, AC+DC,DC+AC	1Φ,3Φ, reversed phase	16-500Hz	USB,CAN,LAN,Digital IO optional GPIB,Analog&RS-232
IT8600	50~420V	1800VA to 10.8kVA	AC,DC	1Φ or 3Φ	45-450Hz	LAN,USB

Regenerative AC Load

IT8200E series Regenerative AC/DC Electronic Load

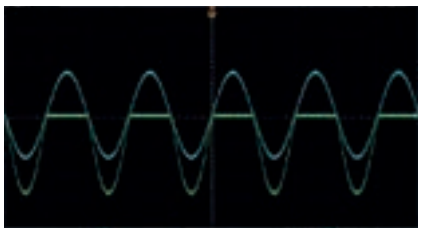
- Up to 21 kVA for 3U
- Power output up to 1MVA after master-slave parrallel connection
- Comprehensive working modes selectable: single-phase, three-phase, reverse phase（split phase）. Rated voltage can be extended to 200% under reverse phase（split phase）
- Support NORMAL/LIST/SWEEP/Surge&Sag modes
- AC mode supports CC/CP/CR/CS/CC+CR/CE multiple working modes
- CE mode: simulation of 14 circuit topologies including single-phase rectifier RLC and parallel RLC
- DC mode supports 9 working modes such as CC/CR/CP/CV
- AC mode supports both rectification and non-rectification modes
- Adjustable crest factor: 1.414 ~ 5.0
- Supports phase shift, ranging from -90 ° to 90.0 ° *1

* 1 After the rectification function is enabled, the setting range of phase shift is restricted by the peak factor



full wave

positive half wave



negative half wave

Model	Output voltage Vac		Output current Aac		Output power Pac	Phase	Height
	V L-N	V L-L	Arms(1Φ)	Arms(3Φ)			
IT8221E-350-105	350V	606V	105A	35A	21kVA	1Φ,3Φ,reversed phase	3U
IT8242E-350-210	350V	606V	210A	70A	42kVA	1Φ,3Φ,reversed phase	6U
IT8263E-350-315	350V	606V	315A	105A	63kVA	1Φ,3Φ,reversed phase	15U
IT8284E-350-420	350V	606V	420A	140A	84kVA	1Φ,3Φ,reversed phase	27U
IT82105E-350-525	350V	606V	525A	175A	105kVA	1Φ,3Φ,reversed phase	27U
IT82126E-350-630	350V	606V	630A	210A	126kVA	1Φ,3Φ,reversed phase	27U
IT82147E-350-735	350V	606V	735A	245A	147kVA	1Φ,3Φ,reversed phase	27U
IT82168E-350-840	350V	606V	840A	280A	168kVA	1Φ,3Φ,reversed phase	37U
IT82189E-350-945	350V	606V	945A	315A	189kVA	1Φ,3Φ,reversed phase	37U
IT82210E-350-1050	350V	606V	1050A	350A	210kVA	1Φ,3Φ,reversed phase	37U
IT82231E-350-1155	350V	606V	1155A	385A	231kVA	1Φ,3Φ,reversed phase	37U

Regenerative AC Load

IT8200 series
Regenerative AC/DC Electronic Load

- 3U up to 15kVA, 1U/2U up to 6KVA
- Power output up to 960kVA after master-slave parrallel connection*1
- Highly efficient power regeneration
- Comprehensive working modes selectable: single-phase, three-phase, reverse phase（split phase）. Rated voltage can be extended to 200% under reverse phase（split phase）
- Support NORMAL/LIST/SWEEP/Surge&Sag modes
- Built-in rich waveform database
- AC mode supports CC/CP/CR/CS/CC+CR/CE multiple working modes

* 1 For 3U models, max.64 units can be connected in parallel

- CE mode: simulation of 14 circuit topologies including single-phase rectifier RLC and parallel RLC
- DC mode supports 9 working modes such as CC/CR/CP/CV
- AC mode supports both rectification and non-rectification modes
- Adjustable crest factor: 1.414 ~ 5.0
- Supports phase shift, ranging from -90 º to 90.0 º *2
- The unit power factor1 function allows the current waveform to vary with the voltage waveform and the power factor is as close to 1 as possible

* 2 After the rectification function is enabled, the setting range of phase shift is restricted by the peak factor

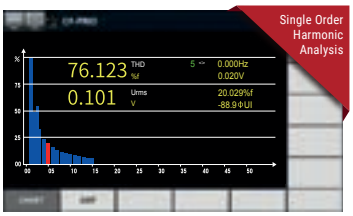
Model	Rated Vac		Rated Amps/Phs		Rated Pac	Phase	Height	Display
	V L-N	V L-L	Arms(1Φ)	Arms(3Φ)				
IT8202-350-10U-ATE	350V	–	10A	–	2kVA	1Φ	1U	–
IT8202-350-10U	350V	–	10A	–	2kVA	1Φ	2U	Touch Screen
IT8203-350-30U	350V	–	30A	–	3kVA	1Φ	3U	Touch Screen
IT8204-350-20U-ATE	350V	–	20A	–	4kVA	1Φ,reversed phase	1U	–
IT8204-350-20U	350V	–	20A	–	4kVA	1Φ,reversed phase	2U	Touch Screen
IT8205-350-30U	350V	–	30A	–	5kVA	1Φ	3U	Touch Screen
IT8206-350-30-ATE	350V	606V	30A	10A	6kVA	1Φ,3Φ,reversed phase	1U	–
IT8206-350-30	350V	606V	30A	10A	6kVA	1Φ,3Φ,reversed phase	2U	Touch Screen
IT8206-350-90	350V	606V	90A	30A	6kVA	1Φ,3Φ,reversed phase	3U	Touch Screen
IT8209-350-90	350V	606V	90A	30A	9kVA	1Φ,3Φ,reversed phase	3U	Touch Screen
IT8212-350-90	350V	606V	90A	30A	12kVA	1Φ,3Φ,reversed phase	3U	Touch Screen
IT8215-350-90	350V	606V	90A	30A	15kVA	1Φ,3Φ,reversed phase	3U	Touch Screen
IT8230-350-180	350V	606V	180A	60A	30kVA	1Φ,3Φ,reversed phase	6U	Touch Screen
IT8245-350-270	350V	606V	270A	90A	45kVA	1Φ,3Φ,reversed phase	15U	Touch Screen
IT8260-350-360	350V	606V	360A	120A	60kVA	1Φ,3Φ,reversed phase	27U	Touch Screen
IT8275-350-450	350V	606V	450A	150A	75kVA	1Φ,3Φ,reversed phase	27U	Touch Screen
IT8290-350-540	350V	606V	540A	180A	90kVA	1Φ,3Φ,reversed phase	27U	Touch Screen
IT82105-350-630	350V	606V	630A	210A	105kVA	1Φ,3Φ,reversed phase	27U	Touch Screen
IT82120-350-720	350V	606V	720A	240A	120kVA	1Φ,3Φ,reversed phase	37U	Touch Screen
IT82135-350-810	350V	606V	810A	270A	135kVA	1Φ,3Φ,reversed phase	37U	Touch Screen
IT82150-350-900	350V	606V	900A	300A	150kVA	1Φ,3Φ,reversed phase	37U	Touch Screen
IT82165-350-990	350V	606V	990A	330A	165kVA	1Φ,3Φ,reversed phase	37U	Touch Screen

AC LOAD

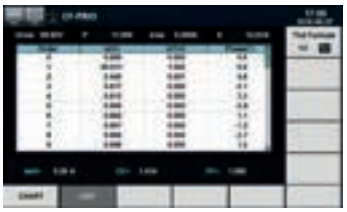
IT8600 series AC/DC Electronic Load

- Frequency range: 45 Hz~450 Hz
- Voltage range: 50~420 Vrms, 15~260 Vrms
- Parallel connection/ three-phase control
- Oscilloscope function supporting display of voltage and current waveform
- High-speed AD sampling, real-time capture waveform
- Measures THD (V) up to 50th Harmonic
- AC electronic load: CC/CR/CP mode
- DC electronic load: CC/CR/CP/CV mode *1
- External 0~10 V analog control input, voltage and current analog monitoring function *2
- OTP, OCP, OVP, UVP and OPP protection function
- LAN and USB communication interfaces and external USB flash disk interface *3

*1 Only IT8615 and IT8615L are with CV function
*2 Only IT8615 and IT8615L have external analog function
*3 For any GPIB interface option request , check with ITECH for availability.



Harmonic
Measuring BAR



Harmonic
Measuring LIST

Oscilloscope
Function

Model	Voltage	Current	Power	Phase
IT8615	50~420Vrms	20Arms	1800VA	1φ
IT8615L	15~260Vrms	20Arms	1800VA	1φ
IT8616	50~420Vrms	40Arms	3600VA	1φ
IT8617	50~420Vrms	60Arms	5400VA	1φ or 3φ
IT8624	50~420Vrms	80Arms	7200VA	1φ
IT8625	50~420Vrms	100Arms	9000VA	1φ
IT8626	50~420Vrms	120Arms	10.8kVA	1φ

Professional software

APS4000 Simulation Software for Avionics/Shipboard Power Standards

- The APS4000 software is primarily designed for power supply adaptability testing of airborne electrical equipment in aviation.
- It features built-in waveforms for mainstream aviation standards, allowing quick access without any programming background.
- The APS4000-ASTD model includes aviation regulation test standards such as MIL-STD-704, DO160, ABD0100.1.8, ABD0100.1.8.1, GJB181B, and HB20326.
- The APS4000-B787\&AMD model includes commercial aviation regulation test standards such as B787 and AMD24C.
- The APS4000-AVALL model integrates all aviation standards covered in both APS4000-AVSTD and APS4000-B787\&AMD.
- The APS4000-1399 is suitable for testing shipboard electrical equipment.
- It can simulate various power outputs used in more-electric/all-electric aircraft, including single/three-phase constant frequency, single/three-phase variable frequency, low-voltage DC, and high-voltage DC.
- It supports simulation of both normal and abnormal aircraft power supply conditions, with built-in regulation-based test items for quick execution.
- Provides test report generation functionality.
- Compatible with ITECH high-performance programmable AC/DC power supply series: IT7800/ IT7800E/IT7900P/ IT7900EP.

APS4000 Models

Model	Regulatory Standards	Revision
APS4000-ASTD	MIL-STD-704, DO160, ABD0100.1.8(A380), ABD0100.1.8.1(A350), GJB181B, HB20326	MIL-STD-704: Rev A/B/C/D/E/F DO160: Rev E/F/G A380: Rev D/E A350: Rev C GJB181B: Rev B HB20326: Rev 2016
APS4000-B787&AMD	B787, AMD24C(A400M)	
APS4000-AVALL	MIL-STD-704, DO160, ABD0100.1.8(A380), ABD0100.1.8.1(A350), GJB181B, HB20326, B787, AMD24C(A400M)	
APS4000-1399	MIL-STD-1399-300	

Schulz Electronic
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Unidirectional DC Power Supply Selection Guide

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YOUR POWER
TESTING SOLUTION

ITECH

DC Power Supplies – Selection Guide

High Precision Power Supply

Applications: Semiconductor, LED, IoT, Optical Communication Module, DC-DC module, Medical /Automotive Electronics

Series	Channel	Power	Voltage	Modular& Expandable*	Performance	Size	Page
IT6400	1~2CH	0.63~150W	±6V, ±9V, ±15V,±30V, ±60V	——	High Precision	1/2 2U	P2
IT-M3200	1CH	100~360W	20V,60V	——	High efficiency with linear-grade precision	1/2 1U	P2
IT6900A	1CH	100~600W	60V,150V	——	High efficiency with linear-grade precision	1/2 2U	P3
IT-N6900	1CH	850~1500W	60V,150V	——	High efficiency with linear-grade precision	1/2 2U	P3
IT6100B	1~2CH	86.4~150W	20V, 30V, 32V, 60V, 72V	——	High Precision	1/2 2U	P4

Multi-channel Power Supply

Applications: Battery, IoT, laser, complex system like automotive

Series	Channel	Power	Voltage	Modular& Expandable*	Performance	Size	Page
IT2705	8CH	200~500W	±20V, 20V, 30V, 60V, 150V	1.6kW	High Precision	5U	P4-5
IT2700	8CH	200~500W	±20V, 20V, 30V, 60V, 150V	2kW	High Precision	1U	P5
IT6300	3CH	15~180W	5V, 16V, 30V, 60V	375W	High Precision	1/2 2U	P6
IT-N6300	3CH	45~200W	9V, 15V, 32V, 60V	445W	High efficiency with linear-grade precision	1/2 2U	P6
IT-M3100	1CH	400~1500W	20V, 30V, 60, 80V, 150V, 300V, 600V, 1000V	——	High Precision	1/2 1U	P7
IT-M3100D	2CH	200~400W	30V, 60V	800W	High Precision	1/2 1U	P8

Bench DC Power Supply

Applications: R&D labs, education, maintenance, and electronics prototyping

Series	Channel	Power	Voltage	Modular& Expandable*	Performance	Size	Page
IT6700	1CH	100~180W	60V	——	High efficiency with linear-grade precision	88*175*282	P8
IT-N6700	1CH	1000~1500W	32V, 80V,150V, 300V, 600V, 1000V, 1500V	——	High Precision	1/2 2U	P9
IT6700H	1CH	400~3000W	32V, 80V,150V, 300V, 600V, 1200V	——	High Precision	1/2 2U, 2U	P9
IT6800A/B	1CH	72~216W	8V, 12V, 18V, 20V, 32V, 50V, 60V, 72V, 75V, 150V	——	High Efficiency	1/2 2U	P10
IT-M3140	1CH	1850~3000W	30V, 80V,150V, 300V, 600V, 1000V, 1200V	——	High Efficiency	1/2 2U	P10

High Power DC Power Supply

Applications: Automotive, energy storage, battery, AI data centers, ATE, power electronics, electroplating, Certification and Testing Organizations

Series	Channel	Power	Voltage	Modular& Expandable*	Performance	Size	Page
IT6500*1	1CH	800~6000W	80V, 150V, 200V, 360V, 500V, 750V, 1000V	30kW	High Efficiency	1U, 2U, 4U	P11
IT-M3900D*1	1CH	1.7~12kW	10V, 32V, 80V, 300V, 500V, 800V, 1500V	1.5MW	High Efficiency 1U/6kW	1U, 2U...37U	P12
IT6000D*1	1CH	5~144kW	80V, 300V, 500V, 800V, 1500V, 2250V	2MW	High Efficiency 3U/18kW	3U..37U	P13
IT6600D*1	2CH	42~420kW	1200, 1600V, 2250V	10MW	Ultra-Fast Response 3U/42kW dual channel	3U..37U	P14

Solar Array Simulator

Applications: Micro inverter, power optimizer

Series	Channel	Power	Voltage	Modular& Expandable*	Performance	Size	Page
IT-N2100	1CH	800~1500W	80, 150V	——	Ultra-Fast Response Current Source	1/2 2U	P15

* means max expandable power (via built-in Master-Slave parallel; external physical paralleling not included)

*1 Built-in Automotive Electronics Waveforms

High Precision Power Supply

IT6400 Bipolar DC Power Supply / Battery Simulator

Features

- High performance color LCD display, dual channel output display main interface *1
- Bipolar dual-range output
- Accurate Battery Simulation
- Oscilloscope waveform display (DSO)
- Ultrafast transient response time < 20 μs
- Ultrafast voltage rising time up to 150 μs
- Current display resolution up to 1 nA
- Ultra-small current ripple up to 2 μArms
- Built-in high accuracy DVM
- Variable output impedance
- Applicable to portable battery power supplies test
- LED test no overcharged current
- Relay out function achieves electrical isolation on terminals
- High speed AD sampling
- List function achieves voltage/current output as programmed
- Standard interface LAN/USB *2

*1 IT6402 / IT6412 / IT6412S provide this function

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

Model	Voltage	Current	Power	Accuracy	Channel
IT6402	CH1：-6V - 0V , 0 - 6V CH2：0 - 6V	CH1：±2A CH2：±2A	CH1：12W CH2：12W	≤0.02%+2mV/ ≤0.05%+2μA	2
IT6411	±15V/±9V	±3A/±5A	45W	≤0.02%+2mV/ ≤0.05%+2μA	1
IT6411S	-15V~0V，0~15V	±0.1 A	1.5 W	≤0.02%+2mV/ ≤0.05%+2μA	1
IT6412	CH1：±15V/±9V CH2：0~15V/0~9V	CH1：±3A/±5A CH2：±3A/±5A	CH1：45W CH2：45W	≤0.02%+2mV/ ≤0.05%+2μA	2
IT6412S	CH1：-15V~0V,0~15V CH2：0~15V	CH1：±0.1A CH2：±0.1A	CH1：1.5W CH2：1.5W	≤0.02%+2mV/ ≤0.05%+50nA	2
IT6431	-15V~ 0V, 0~ 15V	±10 A	150W	≤0.02%+3mV/ ≤0.05%+5uA	1
IT6432	-30V~0V，0~30V	±5A	150W	≤0.02%+3mV/ ≤0.05%+2μA	1
IT6432S	-30V~0V，0~30V	±21mA	0.63W	≤0.02%+2mV/ ≤0.05%+50nA	1
IT6433	-60V-0V,0-60V	±2.5 A	150W	≤0.02%+4mV/ ≤0.05%+2uA	1

IT-M3200 High Accuracy Programmable DC Power Supply

Features

- Low ripple and noise
- Current readback is up to 10nA
- Four current measurement ranges Low/Middle/High/Auto
- List, CC/CV priority setting
- Multi-channel independent control, one communication card can control 16 channels, up to 256 channels
- Different timing output of each channel to achieve synchronization or proportional tracking
- Support multiple communication protocol,CANopen, CAN 2.0B*,SCPI
- Five optional cards, supporting RS232,CAN,LAN,GPIB, USB_TMC,USB_VCP,RS485, analog Interfaces
- OVP/OCP/OTP/OPP/UVP/UCP,Foldback

* Contact ITECH for customization

Model	Voltage	Current	Power
IT-M3223	60V	10A	100W
IT-M3233	60V	10A	200W
IT-M3243	60V	10A	360W
IT-M3253	20V	20A	100W
IT-M3263	20V	20A	200W
IT-M3273	20V	20A	360W

IT6900A Wide-range Programmable DC Power Supply

- VFD display
- Adjust voltage and current via knob or numerical key pad
- High accuracy and high resolution
- Adjust digital step value via cursor
- Output voltage and current values accordance with procedure
- Output Timer(0.1 ~ 99999.9S) Function
- Low ripple and low noise
- Remote Sense Function
- Intelligent fan control
- Rich SCPI instructions to facilitate the formation of intelligent test platform
- Support front and rear panel output
- Optional external analog function
- Standard communication interface RS232/USB*

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

Model	Voltage	Current	Power	Size
IT6922A	60V	5A	100W	1/2 2U
IT6932A	60V	10A	200W	1/2 2U
IT6933A	150V	5A	200W	1/2 2U
IT6942A	60V	15A	360W	1/2 2U
IT6952A	60V	25A	600W	1/2 2U
IT6953A	150V	10A	600W	1/2 2U

IT-N6900 Programmable DC Power Supply

- 4.3” HD LCD
- Voltage: 60V, 150V
- Power: 800W, 1500W, wide range output
- Two current ranges, 1μA current resolution
- Lower ripple and noise
- Trend analysis,monitor the voltage, current and power of the DUT in time
- Faster voltage rise and fall
- With CC, CV priority, suitable for a variety of DUT's
- Support OVP, UVP, OCP, OPP, OTP, Foldback protection function
- Built-in USB, LAN, Digital I/O communication interface, optional GPIB, RS232, Analog I/O
- Support SCPI, LabVIEW programming

* IT-N6900 series is CSA certified.

Model	Voltage	Current	Power
IT-N6952	60V	25A	850W
IT-N6962	60V	25A	1500W*1
IT-N6953	150V	10A	850W
IT-N6963	150V	10A	1500W*1
IT-E177	RS232&Analog		Optional
IT-E176	GPIB		Optional

* The power output is 850W under 110Vac input.

IT6100B High Accuracy Programmable DC Power Supply

- Output linear adjustment, high speed, reliable, low noise
- High accuracy and resolution
- Ultrafast voltage rise slew rate
- Built-in 5½ digit voltmeter and milliohmmeter
- Memory capacity: 100 groups
- List mode
- Timer function (0.01~60000S)
- Remote sense, compensate line voltage
- Built-in RS232/USB interfaces, support SCPI protocol*

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

Model	Voltage	Current	Power	Size
IT6121B	20V	5A	100W	1/2 2U
IT6122B	32V	3A	96W	1/2 2U
IT6123B	72V	1.2A	86W	1/2 2U
IT6132B	30V	5A	150W	1/2 2U
IT6133B	60V	2.5A	150W	1/2 2U

Multi-channel Power Supply

IT2705 Modular DC Power Analyzer

IT2705 Modular DC Power Analyzer/ IT2700 Multi-channel Modular Power System

- Compact size: single unit up to 8 channels: 1U or 5U mainframe 7-inch color display
- 2 mainframes (1U), 4 module types (DC power supply, bidirectional power supply,regenerative load and SMU)*4
- SMU module supports four-quadrant operation, EIS testing (auto-generating Nyquist and Bode plots), and offers nA-level accuracy
- Free PC software PV2700, display 8-channel output
- Oscilloscope function: Capable of digitizing voltage and current with a frequency of up to 200kHz and a memory depth of 600kpts*1
- Data logging function: Up to 50kHz sampling rate, and the data can be saved on a USB drive or stored via the host computer.
- The electrically isolated source load module supports 8 modules in master-slave parallel connection up to 2kW*2
- Load function: support CC, CV, CP, CR, CC+CV, CR+CV, CP+CV, CC+CR, AUTO,BSIM(battery simulation)
- Supports automatic switching for CV, CC, and CP, with selectable CC & CV priority,and internal resistance setting
- Supports synchronous control between different frames, no upper limit of channels
- Rich trigger output and input, support step trigger output, can trigger other modules (acquisition, oscilloscope, data recording, etc.)
- Measurement functions: multi-output/single-output display, supports average, minimum and maximum values of V/I/P, and calculates P, Ah and Wh for all outputs
- Output functions: list function, arbitrary waveform, sweep, arbitrary wave sequence, constant dwell arbitrary wave, load transient, battery simulation*3, battery test, output on/off serialization, Watchdog, support output coupling
- Full protection: OVP, UVP, OCP, OPP, OTP, UCP, Foldback, supports protection coupling
- Modules come with a built-in power relay, supporting reverse polarity protection, leakage prevention, and surge protection
- Support Web control, use common browser to realize all functions
- 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
- Support SCPI, CANopen, CAN 2.0B*5, and Modbus protocol

*1 The oscilloscope functions of the 1U mainframe can be operated via PV2700 software.
*2 One mainframe allows two sets of master-slave parallel connections
*3 Only available for bidirectional power supply modules
*4 SMU module should be equipped with IT2705 or IT2702 mainframe
*5 Contact ITECH for customization

Voltage	Current	Power	DC power supply*1	Bidirectional DC power supply*1	Regenerative DC load*1	SMU module*2
±20V	±3A	±20W (2 slots occupied)				IT27814(E)
20V	50A	500W*3 (2 slots occupied)	IT27153/IT27153R	IT27353/IT27353R	IT27553/IT27553R	
30V	15A	200W	IT27134/IT27134R	IT27334/IT27334R	IT27534/IT27534R	
	30A	500W (2 slots occupied)	IT27154/IT27154R	IT27354/IT27354R	IT27554/IT27554R	
60V	10A	200W	IT27135/IT27135R	IT27335/IT27335R	IT27535/IT27535R	
	20A	500W (2 slots occupied)	IT27155/IT27155R	IT27355/IT27355R	IT27555/IT27555R	
150V	5A	200W	IT27137/IT27137R	IT27337/IT27337R	IT27537/IT27537R	
	10A	500W (2 slots occupied)	IT27157/IT27157R	IT27357/IT27357R	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)					

*1 IT27xxx should be equipped with IT2702/ IT2704/IT2705 ; IT27xxxR should be equipped with IT2703 *2 SMU module should be equipped with IT2705 or IT2702 mainframe.
*3 20V/50A/500W module could only be equipped with 1U mainframe.

IT-N6300 Series Triple-Channel Programmable DC Power Supply

- 4.3-inch Color LCD Display
- Fully Isolated Triple Channels with Independent Control
- Multiple Output Modes: Series, Parallel, and Synchronous
- Auto Range Mode for Versatile Testing Needs
- Transient Response Time: ≤50 μs
- High Accuracy: ≤0.02% + 3 mV / ≤0.03% + 1.5 mA
- Programming Response Time: 5 ms
- Low Output Ripple and Noise
- CC/CV Priority Modes
- Comprehensive Protection Features: OVP, UVP, OCP, UCP, OPP, OTP, and FOLDBACK
- Supports Local and Remote Sensing Modes
- Built-in USB, LAN, Digital I/O, and RS232 Communication Interfaces (on Select Models)

Product model	Channels	Total Power	CH1 & CH2	CH3	Setup Resolution	Interface	Silicone Protective Case
IT-N6322A	3	245W	32V/6A/100W	9V/5A/45W	10mV/1mA	USB	Optional
IT-N6322B	3	245W	32V/6A/100W	15V/5A/45W	1mV/0.1mA	USB/LAN/RS232/ Digital I/O	Standard
IT-N6323A	3	245W	60V/3A/100W	9V/5A/45W	10mV/1mA	USB	Optional
IT-N6323B	3	245W	60V/3A/100W	15V/5A/45W	1mV/0.1mA	USB/LAN/RS232/ Digital I/O	Standard
IT-N6332A	3	445W	32V/10A/200W	9V/5A/45W	10mV/1mA	USB	Optional
IT-N6332B	3	445W	32V/10A/200W	15V/5A/45W	1mV/0.2mA	USB/LAN/RS232/ Digital I/O	Standard
IT-N6333A	3	445W	60V/5A/200W	9V/5A/45W	10mV/1mA	USB	Optional
IT-N6333B	3	445W	60V/5A/200W	15V/5A/45W	1mV/0.1mA	USB/LAN/RS232/ Digital I/O	Standard

IT6300 High Performance Triple Channels DC Power Supply

Model	Specification	Interface	Protection
IT6322	30V/3A/90W*2CH ; 5V/3A/15W*1CH	Optional USB/GPIB/RS232	Limited voltage, limited current and OTP
IT6322A	30V/3A/90W*2CH ; 5V/3A/15W*1CH	USB/RS232	OVP，OTP
IT6322B	30V/3A/90W*2CH ; 5V/3A/15W*1CH	USB/GPIB/RS232	OVP，OTP
IT6322C	30V/3A/90W*2CH ; 5V/3A/15W*1CH	USB/LAN	OVP，OTP
IT6332A	30V/6A/180W*2CH ; 5V/3A/15W*1CH	USB/RS232	OVP，OTP
IT6332B	30V/6A/180W*2CH ; 5V/3A/15W*1CH	USB/GPIB/RS232	OVP，OTP
IT6332C	30V/6A/180W*2CH ; 5V/3A/15W*1CH	USB/LAN	OVP，OTP
IT6333A	60V/3A/180W*2CH ; 5V/3A/15W*1CH	USB/RS232	OVP，OTP
IT6333B	60V/3A/180W*2CH ; 5V/3A/15W*1CH	USB/GPIB/RS232	OVP，OTP
IT6333C	60V/3A/180W*2CH ; 5V/3A/15W*1CH	USB/LAN	OVP，OTP
IT6341C	5V/16A/80W*1CH ; 16V/5A/80W*1CH	USB/LAN	OVP，OTP

IT-M3100 Ultra-compact Wide Range DC Power Supply

- 1U Half-Rack, Ultra-Compact Size
- Adjustable rising/falling speed of output current, to meet various test applications
- High speed test, up to 10 times per second
- Up to 100 steps LIST operation, support output of various dynamic waveforms
- Support CC/CV loop speed and priority setting
- Parallel operation can be easily controlled by one unit
- Independent control of multi- channels, one communication card can control up to 16 channels, max.256 channels*
- Support output of different timings of each channel, can synchronize or delay the output, and supports the output of different ratios of voltage

* For multiple IT-M3100 rack installations, follow the manual's layout for cooling consideration

- Support CANopen, CAN 2.0B*1, SCPI, Modbus and other protocols
- Five optional cards , providing RS232, CAN, LAN, GPIB, USB_TMC, USB_VCP, RS485, external analog communication interfaces
- Support TRACE function, can draw voltage and current waveforms in real time (Supported by program)
- Battery charging test function
- Software watchdog provides more reliable and safe automatic battery test solution
- Various protection functions such as OVP, ±OCP, ±OPP, OTP, ensure secure testing
- Provide Inhibit pins to disable and restore the output of the power supply

*1 Contact ITECH for customization

20V/30V/60V

Model	Voltage	Current	Power
IT-M3110	20V	100A	400W
IT-M3120	20V	100A	850W
IT-M3130	20V	120A	1500W
IT-M3111	30V	70A	400W
IT-M3121	30V	70A	850W
IT-M3131	30V	100A	1500W
IT-M3112S	60V	20A	200W
IT-M3120S	60V	35A	800W

80V/150V/300V

Model	Voltage	Current	Power
IT-M3112	80V	22A	400W
IT-M3122	80V	22A	850W
IT-M3132	80V	40A	1500W
IT-M3113	150V	12A	400W
IT-M3123	150V	12A	850W
IT-M3133	150V	20A	1500W
IT-M3114	300V	6A	400W
IT-M3124	300V	6A	850W
IT-M3134	300V	10A	1500W

600V/1000V

Model	Voltage	Current	Power
IT-M3115	600V	3A	400W
IT-M3125	600V	3A	850W
IT-M3135	600V	5A	1500W
IT-M3116	1000V	3A	400W
IT-M3126	1000V	3A	850W
IT-M3136	1000V	3A	1500W

IT-M3100D Dual-channel DC Power Supply

- High power density, 1U Half-Rack only Isolated dual-channel design
- Different timing output of each channel, synchronous or delayed output,output with different voltage ratios
- Adjustable rise/fall time
- Up to 100 steps LIST operation, support output of various dynamic waveforms
- CC/CV loop speed and priority setting
- Independent control of multi- channels, one communication card can control up to 16 channels
- Series/parallel connection between two channels is available*1 new
- Support CW
- Support CANopen, CAN 2.0B*2 , LXI, SCPI
- Five optional cards , providing RS232, CAN, LAN, GPIB,USB_TMC, USB_VCP, RS485, external analog communication interfaces
- Support TRACE function, can draw voltage and current waveforms in real time (Supported by program)
- Various protection functions such as Sense, OVP, OCP, OPP, OTP, Foldback
- Provide self-locking function, when the device is self-locked, the device will not be able to output

*1 Max.100V can be output after series/parallel connection
*2 Contact ITECH for customization

Model	CH1	CH2
IT-M3131D	30V/15A/200W	30V/15A/200W
IT-M3141D	30V/15A/400W	30V/15A/400W
IT-M3132D	60V/10A/200W	60V/10A/200W
IT-M3142D	60V/10A/400W	60V/10A/400W

Bench DC Power Supply

IT6700 DC Power Supply

- Completely digital-control
- 10mV/1mA high accuracy and resolution
- Lower noise and ripple
- CV/CC modes
- Minimum size to save space
- Bright and easy to read display (VFD)
- OCP/OVP/OTP protection
- The most economical high performance digital-control power supply
- Full scale , no need to switch
- Switch control for output

*1 Max.100V can be output after series/parallel connection

Model	Voltage	Current	Power
IT6721	60V	8A	180W
IT6720	60V	5A	100W

IT6700H Wide Range High Voltage Programmable DC Power Supply

- Voltage up to 1200V
- VFD display
- High voltage high current models optional
- Output control via ON/OFF switch
- Safety terminal
- List mode, editable waveforms of voltage and current
- Remote sense
- Built-in RS232/USB *1

*1 IT6722 is with GPIB interface

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

Model	Voltage	Current	Power	Size
IT6722	80V	20A	400W	1/2 2U
IT6722A	80V	20A	400W	1/2 2U
IT6723	80V	40A	850W	1/2 2U
IT6723B	150V	20A	850W	1/2 2U
IT6723C	32V	110A	850W	1/2 2U
IT6723G	600V	5A	850W	1/2 2U
IT6723H	300V	10A	850W	1/2 2U
IT6724	80V	40A	1500W	1/2 2U
IT6724B	150V	20A	1500W	1/2 2U
IT6724C	32V	110A	1500W	1/2 2U
IT6724G	600V	5A	1500W	1/2 2U
IT6724H	300V	10A	1500W	1/2 2U
IT6726C	32V	220A	3kW	2U
IT6726V	1200V	5A	3kW	2U

IT-N6700 Programmable DC Power Supply

- 4.3-inch high-resolution LCD display
- Multiple output modes: CC / CV / CP
- Wide-range design: 32 V–1500 V, 1000 W & 1500 W
- LIST mode with adjustable voltage and current rise/fall slew rates
- CC/CV priority modes to accommodate a wide range of devices under test (DUTs)
- Trend graph analysis for long-term monitoring of voltage, current, and power (V/I/P) curves of the device under test

Remote sensing (remote compensation) function

- Comprehensive protection features: OCP/OVP/UVP/OPP/OTP/ Foldback
- Standard USB, LAN, Digital I/O, RS232 communication interfaces

Model	1000W	Model	1500W
IT-N6723C	32V/110A/1000W	IT-N6724C	32V/110A/1500W
IT-N6723	80V/40A/1000W	IT-N6724	80V/40A/1500W
IT-N6723B	150V/20A/1000W	IT-N6724B	150V/20A/1500W
IT-N6723H	300V/10A/1000W	IT-N6724H	300V/10A/1500W
IT-N6723G	600V/5A/1000W	IT-N6724G	600V/5A/1500W
IT-N6723V	1000V/3A/1000W	IT-N6724V	1000V/3A/1500W
IT-N6723P	1500V/2A/1000W	IT-N6724P	1500V/2A/1500W

IT6800A/B
Dual-range & Single Channel Programmable DC Power Supply

Model	Voltage	Current	Power	Interface
IT6861A	20V/8V	5A/9A	100W/72W	RS232/USB
IT6862A	32V/12V	3A/6A	96W/72W	RS232/USB
IT6863A	72V/32V	1.5A/3A	108W/96W	RS232/USB
IT6872A	35V/15V	4A/7A	140W/105W	RS232/USB
IT6873A	75V/32V	2A/4A	150W/128W	RS232/USB
IT6874A	150V/60V	1.2A/2A	180W/120W	RS232/USB

*The IT6800A dual range series is without GPIB interface. The remaining parameters are the same as the IT6800B series.
If needing GPIB interface, the IT6800B dual range series can be selected.

Model	Voltage	Current	Power	Interface
IT6831A	18V	10A	180W	USB/RS232
IT6832A	32V	6A	192W	USB/RS232
IT6832B	32V	6A	192W	USB/RS232/GPIB
IT6833A	72V	3A	216W	USB/RS232
IT6833B	72V	3A	216W	USB/RS232/GPIB
IT6835A	50V	4A	200W	USB/RS232
IT6835B	50V	4A	200W	USB/RS232/GPIB

* IT6800A single channel series is standard model, IT6800B single channel series is optional if you need GPIB interface.

IT-M3140 Programmable DC Power Supply

- Only 2U half rack, 1850W/3000W
- 30V-1200V, 150A
- Three output modes: CV/CC/CP
- CC/CV priority to avoid current overshoot
- Fast dynamic response: <1ms
- According to the voltage and current waveform output programmed by LIST,the rising and falling slopes are adjustable
- Fold back,UVP/OVP, UCP/OCP,OPP,OTP, inhibit protection,more secure and reliable
- The Sense protection circuit combined with software and hardware can effectively detect Sense reverse connection and missing connection, and protect the DUT
- Standard USB/LAN, optional RS232 & analog, GPIB, easy to integrate

Model	Parameter Specifications (3000W)	Model	Parameter Specifications (1850W)
IT-M3141	30V/150A/3000W	IT-M3131E	30V/150A/1850W
IT-M3142	80V/80A/3000W	IT-M3132E	80V/80A/1850W
IT-M3143	150V/40A/3000W	IT-M3133E	150V/40A/1850W
IT-M3144	300V/20A/3000W	IT-M3134E	300V/20A/1850W
IT-M3145	600V/10A/3000W	IT-M3135E	600V/10A/1850W
IT-M3146	1000V/6A/3000W	IT-M3136E	1000V/6A/1850W
IT-M3147	1200V/5A/3000W	IT-M3137E	1200V/5A/1850W

Size: 2U half rack
AC input range (single-phase: L, N, PE) : A. 110Vac±10%, power down to 1500W
B. 192Vac~264Vac, full power output of all models

High Power DC Power Supply

IT6500 Wide-range High-power DC Power Supply

- Support multiple power supplies paralleling in Master-Slave mode and ensures each power supply equally shares the load current. Extension capacity is up to 30kW output.
- Support various modes (CV/CC/CP), independent edge setting
- Adjustable rising and falling time
- Built-in DIN 40839, ISO-16750-2, SAEJ1113-11, LV124 and ISO2184 standard voltage curve for automobile power net *2
- LIST mode programming
- Variable output impendence function *1
- Low ripple and low noise
- High resolution and high accuracy
- Support multiple protections (Power Supply: OVP,OCP,OPP; Vsense Reverse protection, turn-off protection, input under voltage protection
- Remote sense function
- Analog control interfaces
- Built-in USB/RS232/CAN/LAN*3 interfaces

*1 Limit IT6500C series have this function
*2 Limit IT6500C series have this function, IT6512 and IT6513 are built-in DIN 40839, ISO-16750-2
*3 Some 800W/1200W models do not support LAN interface. Please contact ITECH for support.

800W	**IT6502D** 80V/60A/800W					
1200W	**IT6512/A** 80V/60A/1200W	**IT6513/A** 150V/30A/1200W				
1800W	**IT6512C/D** 80V/120A/1800W	**IT6513C/D** 200V/60A/1800W	**IT6514C/D** 360V/30A/1800W	**IT6515C/D** 500V/20A/1800W	**IT6516C/D** 750V/15A/1800W	**IT6517C/D** 1000V/10A/1800W
3kW	**IT6522C/D** 80V/120A/3kW	**IT6523C/D** 200V/60A/3kW	**IT6524C/D** 360V/30A/3kW	**IT6525C/D** 500V/20A/3kW	**IT6526C/D** 750V/15A/3kW	**IT6527C/D** 1000V/10A/3kW
6kW	**IT6532C/D** 80V/240A/6kW	**IT6533C/D** 200V/120A/6kW	**IT6534C/D** 360V/60A/6kW	**IT6535C/D** 500V/40A/6kW	**IT6536C/D** 750V/30A/6kW	**IT6537C/D** 1000V/20A/6kW

IT-M3900D High power DC power supply

- Compact design， power up to 6kW in 1U space, power up to 12kW in 2U space
- Voltage range: 10-1500V
- Current range:8A~1020A
- Power range:1700W~12kW
- Wide range of output design, one unit can be used as multiple power supplies
- With simple master/slave parallel connection, expand power while maintaining performance*1
- CC/CV priority
- Adjustable output impedance
- Built-in function generator, support arbitrary-waveform generating
- List function, up to 200 steps can be set
- Support multiple working modes, adjustable rise and fall time
- The front panel supports the insertion of USB storage devices to meet the import of List files/Export, data logging functions, etc.
- Standard build-in USB, CAN, LAN, Digital I/O communication interface, optional GPIB, analog & RS232
- Support CANopen, CAN 2.0B and SCPI protocol

*1 For parallel units exceeding 16 units of 1U models or 8 units of 2U models, please contact ITECH.

	Model	Current	Power	Size
10V	IT-M3901D-10-170*1	170A	1700W	1U
	IT-M3903D-10-340*1	340A	3400W	1U
	IT-M3905D-10-510*1	510A	5100W	1U
	IT-M3910D-10-1020*1	1020A	10200W	2U

	Model	Current	Power	Size
32V	IT-M3902D-32-80*1	80A	2kW	1U
	IT-M3904D-32-160*1	160A	4kW	1U
	IT-M3906D-32-240	240A	6kW	1U
	IT-M3912D-32-480	480A	12kW	2U

	Model	Current	Power	Size
80V	IT-M3902D-80-40*1	40A	2kW	1U
	IT-M3904D-80-80*1	80A	4kW	1U
	IT-M3906D-80-120	120A	6kW	1U
	IT-M3912D-80-240	240A	12kW	2U

	Model	Current	Power	Size
300V	IT-M3902D-300-20	20A	2kW	1U
	IT-M3904D-300-40	40A	4kW	1U
	IT-M3906D-300-60	60A	6kW	1U
	IT-M3912D-300-120	120A	12kW	2U

	Model	Current	Power	Size
500V	IT-M3902D-500-12	12A	2kW	1U
	IT-M3904D-500-24	24A	4kW	1U
	IT-M3906D-500-36	36A	6kW	1U
	IT-M3912D-500-72	72A	12kW	2U

	Model	Current	Power	Size
800V	IT-M3902D-800-8	8A	2kW	1U
	IT-M3904D-800-16	16A	4kW	1U
	IT-M3906D-800-24	24A	6kW	1U
	IT-M3912D-800-48	48A	12kW	2U

	Model	Current	Power	Size
1500V	IT-M3906D-1500-12	12A	6kW	1U
	IT-M3912D-1500-24	24A	12kW	2U

*1 These models are CSA certified.

*This information is subject to change without notice.

IT6000D High Power Programmable DC Power Supply

- High power density up to 18kW in compact 3U rack space, expandable up to 2 MW by paralleling
- Output voltage up to 2250V
- Output current up to 8000A
- Adopts third-generation SiC technology
- The adoption of high frequency switching structure supports the automatic switching between CV and CC
- Provides various protections: OVP, OCP, OPP, OTP, protection of power failure and UVP
- Power efficiency up to 95%
- Supports data recording function, can continuously record the Max, Min, Average values of output voltage and current, and it can automatically execute data by sequence
- Supports external data logging functionality, enabling real-time data storage via USB drive insertion
- Built-in interfaces of USB, CAN, LAN, Digital I/O, and optional interfaces of GPIB, Analog and RS232
- Supports CANopen, CAN 2.0B and SCPI protocol, built-in Web server

	Model	Current	Power
80V	IT6005D-80-150	150A	5kW
	IT6010D-80-300	300A	10kW
	IT6015D-80-450	450A	15kW
	IT6030D-80-900	900A	30kW
	IT6045D-80-1350	1350A	45kW
	IT6060D-80-1800	1800A	60kW
	IT6075D-80-2040	2040A	75kW
	IT6090D-80-2040	2040A	90kW
	IT6105D-80-2040	2040A	105kW
	IT6120D-80-2040	2040A	120kW

	Model	Current	Power
300V	IT6006D-300-75	75A	6kW
	IT6012D-300-150	150A	12kW
	IT6018D-300-225	225A	18kW
	IT6036D-300-450	450A	36kW
	IT6054D-300-675	675A	54kW
	IT6072D-300-900	900A	72kW
	IT6090D-300-1125	1125A	90kW
	IT6108D-300-1350	1350A	108kW
	IT6126D-300-1575	1575A	126kW
	IT6144D-300-1800	1800A	144kW

	Model	Current	Power
500V	IT6006D-500-40	40A	6kW
	IT6012D-500-80	80A	12kW
	IT6018D-500-120	120A	18kW
	IT6036D-500-240	240A	36kW
	IT6054D-500-360	360A	54kW
	IT6072D-500-480	480A	72kW
	IT6090D-500-600	600A	90kW
	IT6108D-500-720	720A	108kW
	IT6126D-500-840	840A	126kW
	IT6144D-500-960	960A	144kW

	Model	Current	Power
800V	IT6006D-800-25	25A	6kW
	IT6012D-800-50	50A	12kW
	IT6018D-800-75	75A	18kW
	IT6036D-800-150	150A	36kW
	IT6054D-800-225	225A	54kW
	IT6072D-800-300	300A	72kW
	IT6090D-800-375	375A	90kW
	IT6108D-800-450	450A	108kW
	IT6126D-800-525	525A	126kW
	IT6144D-800-600	600A	144kW

	Model	Current	Power
1500V	IT6018D-1500-40	40A	18kW
	IT6036D-1500-80	80A	36kW
	IT6054D-1500-120	120A	54kW
	IT6072D-1500-160	160A	72kW
	IT6090D-1500-200	200A	90kW
	IT6108D-1500-240	240A	108kW
	IT6126D-1500-280	280A	126kW
	IT6144D-1500-320	320A	144kW

	Model	Current	Power
2250V	IT6018D-2250-25	25A	18kW
	IT6036D-2250-50	50A	36kW
	IT6054D-2250-75	75A	54kW
	IT6072D-2250-100	100A	72kW
	IT6090D-2250-125	125A	90kW
	IT6108D-2250-150	150A	108kW
	IT6126D-2250-175	175A	126kW
	IT6144D-2250-200	200A	144kW

* This information is subject to change without notice

IT6600D High Power Programmable DC Power Supply

- High power density, up to 42kW in 3U
- Independent dual-channel design in 3U unit, and channels can be connected in series or parallel
- Master-slave current sharing, output max. 10MW in parallel
- 5-inch touch screen with intuitive GUI
- Data recorder function
- Oscilloscope function, instant data analysis and saving
- CC/CV priority
- List function, dynamic working condition simulation with tens of millions of points
- Redundancy function, helps to check the status of each single unit or cabinet and ensure the overall output
- Built-in communication interface: USB, LAN (Rawsocket/ Modbus-TCP/ Profinet/ VNC/ VXI-11/ Web/ Telnet), CAN 2.0B (CANopen/CAN2.0), digital I/O
- Optional communication interface:GPIB/EtherCAT/Analog &RS232
- Free PC software

	Model	Current	Power		Model	Current	Power		Model	Current	Power
1200V	IT6642D-1200-200	200A	42kW	1600V	IT6642D-1600-140	140A	42kW	2250V	IT6642D-2250-100	100A	42kW
	IT6684D-1200-400	400A	84kW		IT6684D-1600-280	280A	84kW		IT6684D-2250-200	200A	84kW
	IT66126D-1200-600	600A	126kW		IT66126D-1600-420	420A	126kW		IT66126D-2250-300	300A	126kW
	IT661 68D-1200-800	800A	168kW		IT66168D-1600-560	560A	168kW		IT66168D-2250-400	400A	168kW
	IT66210D-1200-1000	1000A	210kW		IT66210D-1600-700	700A	210kW		IT66210D-2250-500	500A	210kW
	IT66252D-1200-1200	1200A	252kW		IT66252D-1600-840	840A	252kW		IT66252D-2250-600	600A	252kW
	IT66294D-1200-1400	1400A	294kW		IT66294D-1600-980	980A	294kW		IT66294D-2250-700	700A	294kW
	IT66336D-1200-1600	1600A	336kW		IT66336D-1600-1120	1120A	336kW		IT66336D-2250-800	800A	336kW
	IT66378D-1200-1800	1800A	378kW		IT66378D-1600-1260	1260A	378kW		IT66378D-2250-900	900A	378kW
	IT66420D-1200-2000	2000A	420kW		IT66420D-1600-1400	1400A	420kW		IT66420D-2250-1000	1000A	420kW

Solar Array Simulator

IT-N2100 Series Solar Array Simulator

Model	Voltage	Current	Power
IT-N2121*	80V	25A	800W
IT-N2131*	80V	25A	1500W
IT-N2123	150V	10A	800W
IT-N2133	150V	10A	1500W

*can be extended to 85V output

- Precise simulation of the IV characteristics output of silicon, GaAs and other types of solar PV panels
- Built-in solar array simulation software, supporting multi-channel control*
- High-speed current dynamic response to support fast MPPT for microinverters
- Up to 1500V DC output common-mode withstand voltage, supporting series testing of the DUT
- Fixed mode, adjustable output impedance,can simulate CC, CV, CP output
- Ultra-low current ripple, high precision sampling, programming and measurement
- Simulate I-V curve under different temperature and light
- Built-in EN50530, Sandia, NB/T32004, CGC/GF004, CGC/GF035 regulations dynamic model test, and generate reports
- Graphical operation interface, real-time display of MPPT status of PV inverter
- Dynamic list sequence programming: 100 steps x 20 data sets Real-time data and curve recording for further analysis
- Simulation of dynamic and static I-V curves of solar panels under cloud shadow
- Table mode supports I-V curve fitting with 4096 points
- Quickly generate I-V by setting Voc, Isc, Vmp, Imp by four-point method
- Comprehensive curve protection: OVP, OCP, OPP, OTP
- Small size: 2U half rack for single channel
- 4.3" HD LCD, easy to operate
- Front and rear panel output, adaptable to bench top and system integration for various applications
- Standard communication interface LAN, USB, digital I/O, support SCPI

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- **Direkter Ansprechpartner in Deutschland**
- **Unterstützung bei Auswahl, Integration und Applikation**
- **Flexible Modelle: Kauf, Miete, Leasing, Testgeräte**
- **Schnelle Reaktionszeiten und zuverlässiger Service**
- **Fachkundiger Support & autorisierte Reparaturwerkstatt**

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