IT2700

Multi-channel Modular Power System







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IT2700 series multi-channel modular power system brings ultra-high power density. The 1U main frame can include up to 8 modules (200W each) or 4 modules (500W each). Different modules can be grouped and synchronized. The modules could be bidirectional DC power supplies, DC power supplies or regenerative loads. They have built-in LAN, USB, CAN, digital I/O and free PC software. It can be widely used in ATE integration in R&D, design verification and manufacturing of DC-DC converter, communication power semiconductors, 3C products, like smartphone, PCBA, battery simulation and test, chips BMS chips etc.

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 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, with 2GB internal memory in the instrument and unlimited recording capability on 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.
- Bidirectional power supply module supports resistance setting in load mode
- All modules are wide-range modules
- Single module voltage up to 150V, current up to 30A, power up to 500W
- *1 The oscilloscope functions of the 1U mainframe can be operated via PV2700 software.



DC-DC function verification



Design verification of electronic products

- 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, OCP and OPP test*4, output on/off serialization, Watchdog, support output coupling
- Full protection: OVP, UVP, OCP, OPP, OTP, UCP, Foldback, supports protection coupling
- Modules has anti-reverse connection protection and built-in relay
- 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 and supports SCPI and Modbus protocol
 - *2 One mainframe supports only one set of master-slave parallel connections
 - *3 only available for bidirectional power supply modules
 - *4 only available for load modules



Battery cell simulation and test



Chip test



IT2702 1U frame without front panel



IT2703 1U frame with touch screen

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Voltage	Current	Power	DC power supply *	Bidirectional DC power supply *	Regenerative DC load *
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 main	frame without front panel (8	3 slots, only available for loa	d modules)	

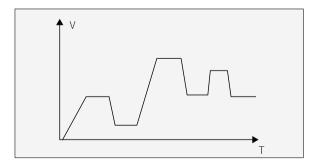
*IT27xxx should be equipped with IT2702 or IT2704 *IT27xxxR should be equipped with IT2703

List Sequence

By editing the voltage, current, pulse width and slope of each step, it can generate a variety of complex sequences, help you complete various loading tests and import or export the files.



- ☑ Up to 2000 steps can be set for each list file \searrow Current Support infinite loop \square Slope
 - CV, CC,CP,CR mode Supports automatic jump or wait for trigger before jump \leq
- ∨oltage Generates pre-step trigger or post-step trigger output



CC&CV Priority

Application: test of diodes, laser diodes, LEDs, power semiconductor components

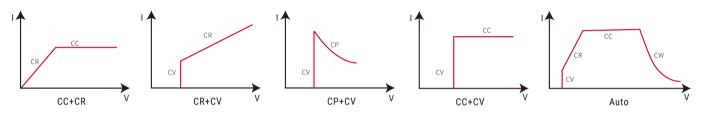
IT2700 power supply and bidirectional power supply modules allow you to select the response priority of the CV/CC loop to determine whether the output is a voltage high-speed mode or a current non-overshoot mode, adapting to different DUTs.

IT2700 Multi-channel Modular Power System

Multiple Operation Modes

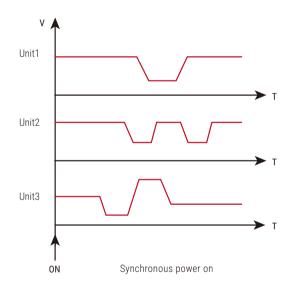
IT2700 load provides 10 operating modes. In addition to CC, CV, CR, and CP, it also includes 5 compound modes: CC+CR mode, which is often used in OBC voltage limiting, current limiting characteristic tests, constant voltage accuracy, and constant current accuracy tests to avoid OCP of the OBC. The CR+CV mode is used to simulate LED lights, test the LED power supply, and acquires the current ripple. The CP+CV mode can replace the VON point setting or be used for battery discharge testing, and the voltage setting point can be used as the cut-off voltage. CC+CV mode can be used to simulate batteries, test charging piles or chargers, and limit the maximum load current while CV is working. AUTO mode allows it to be automatically switch between CV, CR, CC and CP modes. When the DUT's protection circuit is damaged, the mode can be automatically switched to avoid DUT damage.

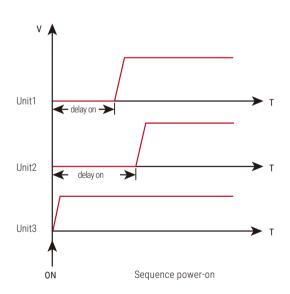
BSIM (Battery Simulation) mode can output a voltage to simulate a battery for testing chargers and other equipment.



Output On/Off Serialization

The on/off delay function for each output allows you to serialize the on/off of the output.





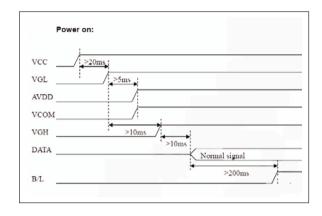


IT2700 Multi-channel Modular Power System

Multi-channel Sequence Power-on

Application: chip power-on sequence test/CPU power management chip test

- When multiple power supplies need to output at the same time
- The DUT has multiple inputs and is powered on in a certain timing sequence
- TFT/LCD test, computer PCB test



Battery Simulation

IT2700 bidirectional power supply modules have built-in battery simulation function. It can simulate parallel connection of multiple battery modules. You can set the battery's initial state, charge and discharge cutoff state, and you can import battery curves or customize simple battery models, such as battery full charge, power loss voltage, battery internal resistance ESR, etc.







Power Accumulation Function

IT2700 series uses the power electronic transformation technology on the premise of completing power test to make output energy of DUT recycled and reused. Via fast sampling of voltage and current, the regenerative power value can be observed on the front panel.



IT2700 Multi-channel Modular Power System

Power Optimizer Test

A solar power optimizer is a DC/DC converter. It maximizes production efficiency through MPPT tracking of each module.

Test purpose

Low-voltage, high-current, high-voltage and low-current production lines calibrate input and output voltage, current, efficiency and stability

Test method

Select the IT2700 power supply and load modules and connect them to the input and output of the power optimizer respectively

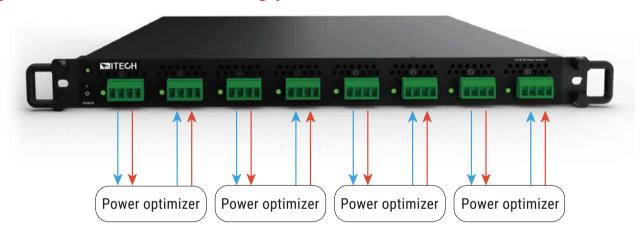
Advantages

Compacted size with multiple channels

12 Synchronize testing to improve efficiency

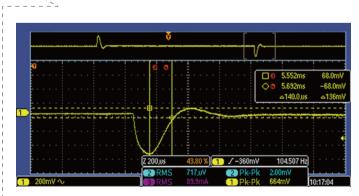
3 Flexible combination of modules

114 Power extension by parallel connection, multiple options



High-speed Dynamic Recovery Time

- IT2700 power module has high-speed dynamic recovery capability. Dynamic recovery time refers to the time required for the power supply output voltage to return to its specified value or steady state when the load changes.
- It maintains stable output, which is particularly important for the test performance of high-precision equipment.
- For high-performance computers, communication equipment and other high-speed electronic products, fast dynamic response helps ensure the best and stable performance of the equipment running at high speeds.
- It has a wider range of applications, such as medical equipment, industrial automation, etc.



60V full voltage, 50%-100% load (50Hz) At LOW loop speed, 10%-90% of the steady-state value, the recovery time is 140µs

IT2700 Multi-channel Modular Power System

Max. 240 Channels In a Single Cabinet



240 Channels

Multi-channel control via PC or front panel, single cabinet can output up to 240 channels

Meet the needs for high efficiency, cost reduction and diverse independent testing of production lines

Master-slave parallelization of modules in each unit, synchronization error <5µs

Coupling/Group - Channel Grouping Function

Controlled by LAN, no limit of channels



Control includes setting voltage and current |ON by group|Start a function **ITrigger**

Motor Testing - Safety Assurance

The coupling function within the frame allows separate settings for output coupling, protection coupling and Inhibit coupling.

Inhibit output prohibition provides more complete interlock linkage protection for automated test systems. When external abnormal signals are received, emergency stop and other abnormal protection can be triggered.

IT2700 is equipped with digital IO interface. When the motor runs abnormally, the motor outputs an abnormal signal (high/low) and transmits it to the inhibit terminal of the digital IO, and at the same time controls the power supply to turn off the output, thereby protecting the DUT.

DUT: DC servo motor



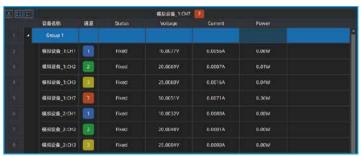


IT2700 Multi-channel Modular Power System

Multi-/Single-Output Display

PV2700 switches between an 8-output/4-output overview and a single-output detailed view of power analyzer information. All power modules display real-time output voltage and current measurements and status.

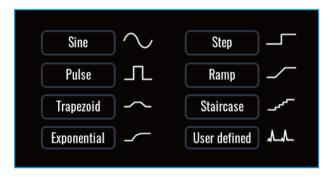




Arbitrary Waveform (Arb)

Generate waveforms like steps, ramps, trapezoid, user-defined, sine waves, pulses, staircase, exponential.

Arb Waveform generator enables biased AC (>0V)





Arbitrary Waveform Sequence (Arb Sequence)

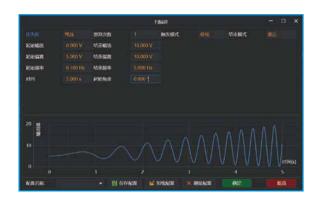
PV2700 can run multiple different arbitrary waveforms one after another, and the ARB sequence can contain any standard ARB type.



IT2700 Multi-channel Modular Power System

Sweeping Sine Wave (Sweep)

- Support sine wave amplitude, bias and frequency sweeps
- Be used to evaluate the stability, efficiency and heating of the DUT
- Available for power supply, bidirectional power supply, and load modules

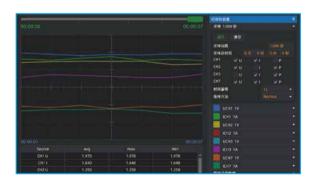


Constant Dwell Arbitrary Waveforms

- Supports users to import captured waveforms, and all points share the same dwell time. CDARB (const dwell arb) is a digital simulation function. Users can replay the sampled voltage or current, power, and resistance waveforms at equal intervals. CDARB supports importing up to 8,000 points with customizable dwell time and can be used in conjunction with the recorder. One for recording data and the other for playback data. Constant dwell time arbitrary waveform, which can be used by users to reproduce arbitrary waveforms.
- Time intervals are equal, and the default setting is the fastest slope.

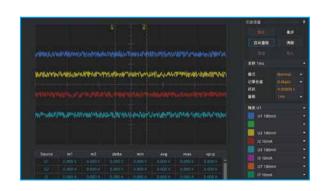
Data Recording Display

PV2700 can record and display the average, minimum and maximum values of voltage, current and power over a period of time. The maximum frequency is 50kHz, and the measurement results can be calculated by adjusting the markers. The measurement results include maximum value, minimum value, average value, peak-to-peak value, ampere-hour, watt-hour and interval time.



Oscilloscope Display

PV2700 can capture up to 16 output voltage and/or current waveforms simultaneously, and can display 6 waveforms simultaneously, with a frequency of up to 200kHz, a maximum of 600kpts., and a resolution of up to 16 bits. The measurement results can be calculated by adjusting the markers. The measurement results include maximum value, minimum value, average value, peak-to-peak value, interval time, etc. It supports common oscilloscope functions such as triggering, rolling and single capture.



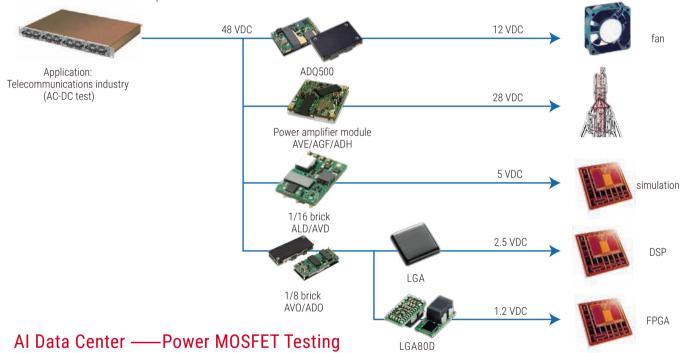
IT2700 Multi-channel Modular Power System

48V System - 5G Communication Power Supply, Data Center

- The communications industry uses 48V as the standard voltage
- 5G communications require the use of Massive MIMO technology. The AAU single-sector output power of 5G base stations increases from 4G's 40W and 80W to 200W or even higher.

Advantages tested with IT2700

- IT2700 bidirectional power module can simulate batteries and conduct multi-channel power supply tests
- Regenerative load modules can be used for aging test
- Parallel connection to adapt to more DUTs



As the demand for cloud computing, artificial intelligence applications, and high-power processors and accelerators continues to grow, data centers continue to evolve to accommodate new high-power needs, including microprocessors, GPUs, FPGAs, and ASICs requiring higher power levels . The power consumption of advanced processors, including Intel's "Sky Lake" and AMD's "Rome", has also risen to 230-300W, and Nvidia's GPU power consumption will climb to about 600W.

Advantages tested with IT2700

- Compact
- Multiple channels
- Current and power extended in parallel/serial connection



DC/DC power module, up to 300W continuous power The module supports input voltages up to 60V



24V to 60V, 15A, can be connected in parallel Electric fuse solution

IT2700 Multi-channel Modular Power System

Advantages Of Production Line Aging Test



Rack Mount Kit

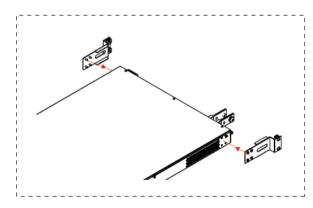
It can be mounted on standard 19-inch cabinets.

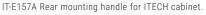
When the IT2702/IT2704 is mounted on an ITECH cabinet, choose the Rack Mount Kit: IT-E157A.

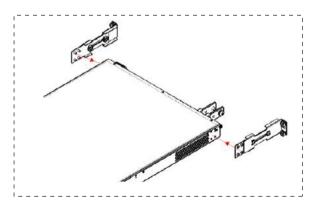
When the IT2702/IT2704 is mounted on a non-ITECH cabinet, choose the accessory: IT-E157B, no tray is required, this accessory can be adjusted according to the depth of the cabinet.

When the IT2703 is mounted to an ITECH cabinet, select the top shelf kit: IT-E157C.

When IT2703 is mounted to a non-ITECH cabinet, select Kit:IT-E157D, no tray required, this kit can be adjusted for cabinet depth.







IT-E157B Rear mounting handle for non-ITECH cabinets

^{*} Note: Front mounting handles are standard for IT2702/IT2704 frames and optional for IT2703, not shown in the picture above.

Your Power Testing Solution IT2700 Multi-channel Modular Power System

		IT2702/IT2702R	
AC input	voltage	Single phase 100V∼380V	
Ao input	frequency	50/60Hz	
Max. AC apparent power		2.3kVA	
Max. AC current *1		12.5Aac	
Max. efficiency		95%	
PF		0.99	
DC component		≤0.2A	
Current harmonic		≤3%	
Communication interface		USB/LAN/CAN/Digital IO	
Program response		0.1ms	
Max. channels		8	
Working temperature		0~40°C	
Store temperature		-10°C∼70°C	
Protection level	IP20		
Withstand voltage (AC to ground)		3500Vdc	
Cooling		fan	
Dimension		580mm*437mm*43.5mm	
N.W.		9kg	

^{*1} The AC current is limited to 12.5Aac. When the mains voltage is low, power may be limited. For example: single-phase mains, phase voltage 100Vac, the power is: P = 100Vac * 12.5Aac = 1250VA

		IT2703
AC input	voltage	Single phase 100V∼240V
Ac iliput	frequency	50/60Hz
Max. AC apparent power		1.8kVA
Max. AC current *1		10Aac
Max. efficiency		95%
PF		0.99
DC component		≤0.2A
Current harmonic		≤3%
Communication interface		USB/LAN/CAN/Digital IO
Program response	0.1ms	
Max. channels		6
Display		4.28"
Display resolution		800*200
Working temperature		0~40°C
Store temperature		-10°C∼70°C
Protection level		IP20
Withstand voltage (AC to ground)		3500Vdc
Cooling		fan
Dimension		580mm*43.5mm
N.W.		10kg

^{*1} The AC current is limited to 10Aac. When the mains voltage is low, power may be limited. For example: single-phase mains, phase voltage 100Vac, the power is: P = 100Vac * 10Aac = 1000VA

Your Power Testing Solution IT2700 Multi-channel Modular Power System

		IT27134/IT27134R	IT27135/IT27135R	IT27137/IT27137R
	voltage	0~30V	0~60V	0∼150V
Rated values	current	0~15A	0~10A	0~5A
	power	0~200W	0~200W	0~200W
	series IR (CV priority)	0~1Ω	0~1Ω	0~1Ω
	voltage	0.001V	0.001V	0.01V
atus recolution	current	0.001A	0.001A	0.001A
etup resolution	power	0.01W	0.01W	0.01W
	series IR (CV priority)	0.0001Ω	0.0001Ω	0.0001Ω
	voltage	0.0001V	0.0001V	0.0001V
eadback resolution	current	0.0001A	0.0001A	0.0001A
	power	0.01W	0.01W	0.01W
	voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	current	≤0.05% + 0.05%FS	≤0.05% + 0.05%FS	≤0.05% + 0.05%FS
et accuracy	power	≤0.1% + 0.2%FS	≤0.1% + 0.2%FS	≤0.1% + 0.2%FS
	series IR (CV priority)	≤1%FS	≤1%FS	≤1%FS
	voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
eadback accuracy	current	≤0.05% + 0.05%FS	≤0.05% + 0.05%FS	≤0.05% + 0.05%FS
	power	≤0.1% + 0.2%FS	≤0.1% + 0.2%FS	≤0.1% + 0.2%FS
	Vpeak	≤30mVpp	≤60mVpp	≤150mVpp
oltage ripple	RMS	≤5mV	≤10mV	≤15mV
etup temperature	voltage	≤20ppm/°C	≤20ppm/°C	≤20ppm/°C
pefficient	current	≤30ppm/°C	≤30ppm/°C	≤30ppm/°C
	voltage	≤20ppm/°C	≤20ppm/°C	≤20ppm/°C
eadback temperature pefficient	current	≤30ppm/°C	≤30ppm/°C	≤30ppm/°C
se time(no load)	voltage	≤10ms	≤10ms	≤10ms
se time(full load))	voltage	≤20ms	≤20ms	≤20ms
se time(no load)	voltage	≤0.5s	≤0.5s	≤0.5s
se time(full load)	voltage	≤10ms	≤10ms	≤10ms
ynamic response time *1	voltage	≤1ms	≤1ms	≤1ms
'	voltage	≤0.005% + 0.005%FS	≤0.005% + 0.005%FS	≤0.005% + 0.005%FS
ower regulation	current	≤0.015% + 0.015%FS	≤0.015% + 0.015%FS	≤0.015% + 0.015%FS
	voltage*2	≤0.005% + 0.005%FS	≤0.005% + 0.005%FS	≤0.005% + 0.005%FS
oad regulation	current	≤0.015% + 0.015%FS	≤0.015% + 0.015%FS	≤0.015% + 0.015%FS
	OCP	15.3A	10.2A	5.1A
utput protection	OVP	30.6V	61.2V	153V
	OPP	204W	204W	204W
ense	Oli	≤3V	≤6V	≤15V
olation(DC to ground)		800Vdc	800Vdc	800Vdc
orking temperature		0~40°C	0~40°C	0~40°C
ore temperature		-10°C∼70°C	-10°C∼70°C	-10°C∼70°C
rotection level		IP20	IP20	IP20
ooling		fan	fan	fan
imension		320mm*50mm*40mm	320mm*50mm*40mm	320mm*50mm*40mm
l.W.				
		0.6kg	0.6kg	0.6kg

^{*1} rated current: 10% to 90%

Your Power Testing Solution IT2700 Multi-channel Modular Power System

		IT27334/IT27334R	IT27335/IT27335R	IT27337/IT27337R
	voltage	0~30V	0~60V	0~150V
	current	-15A~15A	-10A~10A	-5A∼5A
ated values	power	-200W~200W	-200W~200W	-200W~200W
	series IR (CV priority)	0~1Ω	0~1Ω	0~1Ω
	load IR (CC priority)	0.02Ω~200Ω	0.06Ω~600Ω	0.3Ω~3000Ω
	voltage	0.001V	0.001V	0.01V
	current	0.001A	0.001A	0.001A
etup resolution	power	0.01W	0.01W	0.01W
	series IR (CV priority)	0.0001Ω	0.0001Ω	0.0001Ω
	load IR (CC priority)	0.01Ω	0.01Ω	0.01Ω
	voltage	0.0001V	0.0001V	0.0001V
eadback resolution	current	0.0001A	0.0001A	0.0001A
	power	0.01W	0.01W	0.01W
	voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	current	≤0.05% + 0.05%FS	≤0.05% + 0.05%FS	≤0.05% + 0.05%FS
et accuracy	power	≤0.1% + 0.2%FS	≤0.1% + 0.2%FS	≤0.1% + 0.2%FS
	series IR (CV priority)	≤1%FS	≤1%FS	≤1%FS
	load IR (CC priority)	max: 1/(1/Rset+(1/Rset)*0.05+0.0005) min: 1/(1/Rset-(1/Rset)*0.05-0.0005)	max: 1/(1/Rset+(1/Rset)*0.05+0.0005) min: 1/(1/Rset-(1/Rset)*0.05-0.0005)	max: 1/(1/Rset+(1/Rset)*0.05+0.0005) min: 1/(1/Rset-(1/Rset)*0.05-0.0005)
	voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
eadback accuracy	current	≤0.05% + 0.05%FS	≤0.05% + 0.05%FS	≤0.05% + 0.05%FS
•	power	≤0.1% + 0.2%FS	≤0.1% + 0.2%FS	≤0.1% + 0.2%FS
	Vpeak	≤30mVpp	≤60mVpp	≤150mVpp
oltage ripple	RMS	≤5mV	≤10mV	≤15mV
etup temperature	voltage	≤20ppm/°C	≤20ppm/°C	≤20ppm/°C
pefficient	current	≤30ppm/°C	≤30ppm/°C	≤30ppm/°C
eadback temperature	voltage	≤20ppm/°C	≤20ppm/°C	≤20ppm/°C
oefficient	current	≤30ppm/°C	≤30ppm/°C	≤30ppm/°C
ise time(no load)	voltage	<10ms	<10ms	<10ms
ise time(full load))	voltage	<20ms	≤20ms	≤20ms
ise time(no load)	voltage	≤10ms	≤10ms	≤10ms
ise time(full load)	voltage	≤10ms	≤10ms	≤10ms
lynamic response time*1	voltage	≤1ms	≤1ms	≤1ms
yriainio reaponae time ·	voltage	≤0.005% + 0.005%FS	≤0.005% + 0.005%FS	≤0.005% + 0.005%FS
ower regulation	current	≤0.015% + 0.015%FS	≤0.015% + 0.015%FS	≤0.015% + 0.015%FS
	voltage*2	≤0.005% + 0.005%FS	≤0.005% + 0.005%FS	≤0.005% + 0.005%FS
oad regulation	current			
	OCP	≤0.015% + 0.015%FS -15.3A or 15.3A	≤0.015% + 0.015%FS -10.2A or 10.2A	≤0.015% + 0.015%FS -5.1A or 5.1A
Output protection	OVP	30.6V	-10.2A OF 10.2A	153V
στρατ μιστεστίστι	OPP		-204W or 204W	-204W or 204W
lanaa	OLF	-204W or 204W		
ense		≤3V	≤6V	≤15V
solation(DC to ground)		800Vdc	800Vdc	800Vdc
Vorking temperature		0~40°C	0~40°C	0~40°C
tore temperature		-10°C∼70°C	-10°C∼70°C	-10°C∼70°C
rotection level		IP20	IP20	IP20
Cooling		风冷	风冷	风冷
Dimension		320mm*50mm*40mm	320mm*50mm*40mm	320mm*50mm*40mm
N.W.		0.6kg	0.6kg	0.6kg

Your Power Testing Solution IT2700 Multi-channel Modular Power System

		IT27534/IT27534R	IT27535/IT27535R	IT27537/IT27537R
	voltage	0.03V~30V	0.06V~60V	0.150V~150V
	current	0∼15A	0~10A	0~5A
Rated values	power	0~200W	0~200W	0~200W
valeu values	resistance *	0.02Ω~200Ω	0.06Ω~600Ω	0.3Ω~3000Ω
	MOV.	0.3V at 15A	0.6V at 10A	1.5V at 5A
	input leakage current	0.001A	0.001A	0.001A
	voltage	0.001V	0.001V	0.01V
atus ragalutias	current	0.001A	0.001A	0.001A
etup resolution	power	0.01W	0.01W	0.01W
	resistance	0.01Ω	0.01Ω	0.01Ω
	voltage	0.0001V	0.0001V	0.0001V
eadback resolution	current	0.0001A	0.0001A	0.0001A
	power	0.01W	0.01W	0.01W
	voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	current	≤0.05% + 0.05%FS	≤0.05% + 0.05%FS	≤0.05% + 0.05%FS
et accuracy	power	≤0.1% + 0.2%FS	≤0.1% + 0.2%FS	≤0.1% + 0.2%FS
	resistance*1	max: 1/(1/Rset+(1/Rset)*0.05+0.0005)	max: 1/(1/Rset+(1/Rset)*0.05+0.0005)	max: 1/(1/Rset+(1/Rset)*0.05+0.0005)
	voltage	min: 1/(1/Rset-(1/Rset)*0.05-0.0005) ≤0.02% + 0.02%FS	min: 1/(1/Rset-(1/Rset)*0.05-0.0005) ≤0.02% + 0.02%FS	min: 1/(1/Rset-(1/Rset)*0.05-0.0005) ≤0.02% + 0.02%FS
eadback accuracy	current	≤0.05% + 0.05%FS	≤0.05% + 0.05%FS	≤0.05% + 0.05%FS
,	power	≤0.1% + 0.2%FS	≤0.1% + 0.2%FS	≤0.1% + 0.2%FS
etup temperature	voltage	≤20ppm/°C	≤20ppm/°C	≤20ppm/°C
pefficient	current	≤30ppm/°C	≤30ppm/°C	≤30ppm/°C
eadback temperature	voltage	≤20ppm/°C	≤20ppm/°C	≤20ppm/°C
pefficient	current	≤30ppm/°C	≤30ppm/°C	≤30ppm/°C
	rise time	15A/ms	10A/ms	5A/ms
ynamic response time	fall time	15A/ms	10A/ms	5A/ms
	dynamic frequency	500Hz	500Hz	500Hz
	voltage	≤0.005% + 0.005%FS	≤0.005% + 0.005%FS	≤0.005% + 0.005%FS
ower regulation	current	≤0.015% + 0.015%FS	≤0.005% + 0.005% S	≤0.015% + 0.015%FS
	voltage*2	≤0.005% + 0.005%FS	≤0.005% + 0.005%FS	≤0.005% + 0.005%FS
oad regulation	current	≤0.015% + 0.015%FS	≤0.015% + 0.015%FS	≤0.015% + 0.015%FS
hort circuit current	current	15.75A	10.5A	5.25A
	OCP	15.73A	10.2A	5.1A
put protection	OVP	30.6V	61.2V	153V
pat proteotion	OPP	204W	204W	204W
put OVP	011	31.5V	63V	156V
ense				130V ≤15V
olation(DC to ground)			800Vdc	800Vdc
orking temperature	800Vdc 0~40°C		0~40°C	0~40°C
			-10°C∼70°C	-10°C∼70°C
ore temperature		-10°C∼70°C IP20		
rotection level			IP20	IP20 fan
Cooling		fan	fan	
Dimension		320mm*50mm*40mm	320mm*50mm*40mm	320mm*50mm*40mm
I.W.		0.6kg	0.6kg	0.6kg

^{*1} resistance accuracy-voltage and current not less than 10%FS



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

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