

**Product**

IT6500 Wide Range High-Power DC Power Supply



High-power single unit is up to 30kW



Wide-range over 100 models



Continuous source & sink testing



30kW up/down time < 3ms



Fast curve changing without overshoot



Maintain excellent performance after paralleling



Simple programming on the front panel



Full protection



**IT6500** Wide Range High-power  
**DC Power Supplies**

**APPLICATIONS**

- Automotive Electronics
- Electric Vehicle Battery Test
- Battery Simulation
- Civil avionics
- Solar Panel I-V Curve Simulation
- LED

*Your Power Testing Solution*



# IT6500 **Wide Range High-power** DC Power Supplies

## Overcome the toughest high power test challenges

With ITECH's latest technology, the IT6500 series offers a full-featured high-performance power test solution. With fast response these DC power supplies provide users with a new level of power supply performance. From 800W to 30 kW, the whole series include more than 100 models. The maximum output voltage and current is up to 1000V and 1200A respectively. With its autoranging capability, it also has a super wide range of voltage and current applications. Users can choose the power supply that fits their testing requirements perfectly.



## Choose the right power supplies that fit your test requirements

IT6502D/IT6512/IT6512A/ IT6513/IT6513A	Good performance and compact size, designed for general purpose testing in R&D and production.
IT6500C series	Fast switching between quadrants, even seamless switching can be achieved under certain conditions, multi-functional and with fast response. These power supplies are designed for continuous source and sink testing requirements. Such as automobile electronics, solar panel IV simulation, DC motors, batteries etc.
IT6500D series	High performance with stable output, designed for automobile, green energy, high speed testing, high-power testing etc.

<b>800W</b>	<b>IT6502D</b> 80V/60A/800W					
<b>1200W</b>	<b>IT6512/A</b> 80V/60A/1200W	<b>IT6513/A</b> 150V/30A/1200W				
<b>1800W</b>	<b>IT6512C/D</b> 80V/120A/1800W	<b>IT6513C/D</b> 200V/60A/1800W	<b>IT6514C/D</b> 360V/30A/1800W	<b>IT6515C/D</b> 500V/20A/1800W	<b>IT6516C/D</b> 750V/15A/1800W	<b>IT6517C/D</b> 1000V/10A/1800W
<b>3kW</b>	<b>IT6522C/D</b> 80V/120A/3kW	<b>IT6523C/D</b> 200V/60A/3kW	<b>IT6524C/D</b> 360V/30A/3kW	<b>IT6525C/D</b> 500V/20A/3kW	<b>IT6526C/D</b> 750V/15A/3kW	<b>IT6527C/D</b> 1000V/10A/3kW
<b>6kW</b>	<b>IT6532C/D</b> 80V/240A/6kW	<b>IT6533C/D</b> 200V/120A/6kW	<b>IT6534C/D</b> 360V/60A/6kW	<b>IT6535C/D</b> 500V/40A/6kW	<b>IT6536C/D</b> 750V/30A/6kW	<b>IT6537C/D</b> 1000V/20A/6kW
<b>9kW</b>	<b>IT6542C/D</b> 80V/360A/9kW	<b>IT6543C/D</b> 200V/180A/9kW	<b>IT6544C/D</b> 360V/90A/9kW	<b>IT6545C/D</b> 500V/60A/9kW	<b>IT6546C/D</b> 750V/45A/9kW	<b>IT6547C/D</b> 1000V/30A/9kW
<b>12kW</b>	<b>IT6552C/D</b> 80V/480A/12kW	<b>IT6553C/D</b> 200V/240A/12kW	<b>IT6554C/D</b> 360V/120A/12kW	<b>IT6555C/D</b> 500V/80A/12kW	<b>IT6556C/D</b> 750V/60A/12kW	<b>IT6557C/D</b> 1000V/40A/12kW
<b>15kW</b>	<b>IT6562C/D</b> 80V/600A/15kW	<b>IT6563C/D</b> 200V/300A/15kW	<b>IT6564C/D</b> 360V/150A/15kW	<b>IT6565C/D</b> 500V/100A/15kW	<b>IT6566C/D</b> 750V/75A/15kW	<b>IT6567C/D</b> 1000V/50A/15kW
<b>21kW</b>	<b>IT6572C/D</b> 80V/840A/21kW	<b>IT6573C/D</b> 200V/420A/21kW	<b>IT6574C/D</b> 360V/210A/21kW	<b>IT6575C/D</b> 500V/140A/21kW	<b>IT6576C/D</b> 750V/105A/21kW	<b>IT6577C/D</b> 1000V/70A/21kW
<b>24kW</b>	<b>IT6582C/D</b> 80V/960A/24kW	<b>IT6583C/D</b> 200V/480A/24kW	<b>IT6584C/D</b> 360V/240A/24kW	<b>IT6585C/D</b> 500V/160A/24kW	<b>IT6586C/D</b> 750V/120A/24kW	<b>IT6587C/D</b> 1000V/80A/24kW
<b>30kW</b>	<b>IT6592C</b> 80V/1200A/30kW	<b>IT6593C/D</b> 200V/600A/30kW	<b>IT6594C/D</b> 360V/300A/30kW	<b>IT6595C/D</b> 500V/200A/30kW	<b>IT6596C/D</b> 750V/150A/30kW	<b>IT6597C/D</b> 1000V/100A/30kW

\* For higher power test, please contact ITECH.

# Your Power Testing Solution

## IT6500 Wide-range High-power DC Power Supply

High-power test challenges	IT6500 helps you to overcome the challenges	IT6500C	IT6500D	IT6512 IT6513	IT6502D IT6512A IT6513A
High-power 	Output power of single unit is up to 30kW	√	√	-	-
	Combined with IT-E500 power dissipater unit it can sink up to 90kW of power.	√	-	-	-
Wide-range 	800W~30kW, whole series over 100 models. Maximum output voltage is up to 1000V	√	√	-	-
	Maximum output current is up to 1200A	√	√	-	-
	Combined with IT-E500 power dissipater unit, the current sinking capacity of IT6500C is up to 100% and the power sinking is up to 300%.	√	-	-	-
Continuous source & sink testing 	Two-quadrant source/sink current output	√	-	-	-
	Fast switching between quadrants, even seamless switching can be achieved under certain conditions.	√	-	-	-
Maintain excellent performance after paralleling 	Built-in paralleling capability up to 30kW	√	√	-	-
	Support multiple power supplies paralleling in Master-Slave mode	√	√	√	√
	Ensure each power supply equally shares the current load and all remain in the desired mode.	√	√	-	-
Fast response 	Power increasing, performance maintains stable.	√	√	-	-
	30kW up/down time <3ms	√	-	-	-
	CC/CV priority automatically selection	√	-	-	-
Simple programming on the front panel 	LIST mode programming	√	√	√	-
	Independent settable slew rate in different modes	√	-	-	-
	Adjustable rising and falling time	√	√	-	-
	Power supply: CV/CC/CP modes	√	√	√	√
Function for special applications 	Electronic load: CC/CP modes	√	-	-	-
	Variable output impedance function	√	-	-	-
	Built-in DIN40839, ISO-16750-2	√	-	√	-
	Built-in SAEJ1113-11, LV124 and ISO21848	√	-	-	-
Precise measurement 	Solar panel I-V curve simulation function	√	-	-	-
	High resolution and high accuracy	√	√	√	√
	Remote sense function	√	√	√	√
Full protection 	Power Supply: OVP, OCP, OPP, OTP	√	√	√	√
	Electronic Load: OCP, OPP, OTP	√	-	-	-
	Turn-off protection	√	√	√	√
	Under voltage protection	√	√	√	√

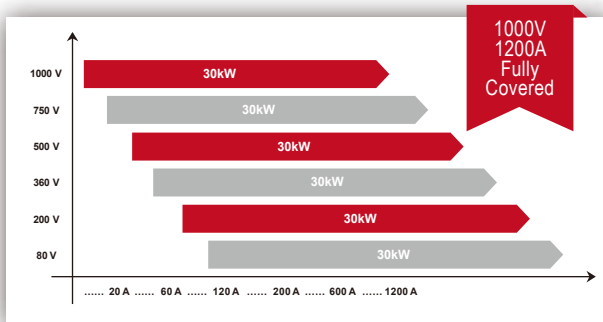
# Your Power Testing Solution

## IT6500 Wide-range High-power DC Power Supply



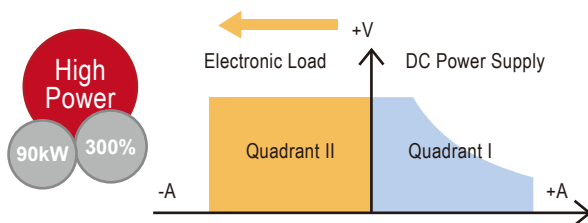
Wide-range & High-power

The IT6500 series wide-range of high-power DC power supplies offers a large range of models. From 800W to 30 kW, the whole series include more than 100 models, the maximum output voltage and current is up to 1000V and 1200A respectively. At the same time, it also has super wide range of voltage and current applications. In combination with the IT-E501 power dissipater unit, the current sinking capacity of IT6500C can be up to 100% and the power sinking up to 300% of the Sourcing capability.



### With the power dissipater unit, loading capability is expanded

IT6500C series can be used as both a power supply and an electronic load. It greatly enlarges the current sinking range of the power supplies. It enables sinking of current and power, thus it can be applied to applications requiring fast current sink test and batteries charging/discharging test. Each IT-E500 series power dissipater unit provides up to 3kW power sinking capability for the IT6500C series power supply. To meet higher power discharging test demand, multiple power dissipater units' can be paralleled. The IT-E500 series power dissipater unit can extend the current sinking capability up to 100% of the source range and the power sinking capability up to 300% of the Power sourcing capability. (Max. Power sink is 90kW). Meeting demanding requirements of high power discharging test.



Model	Specification	Volume
IT-E502	80V/120A/3kW	3U
IT-E503	200V/60A/3kW	3U
IT-E504	360V/30A/3kW	3U
IT-E505	500V/20A/3kW	3U
IT-E506	750V/15A/3kW	3U
IT-E507	1000V/10A/3kW	3U



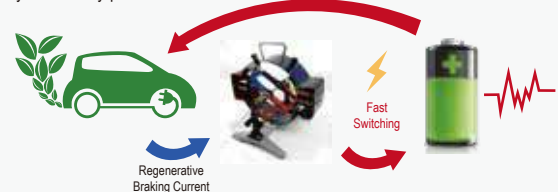
Seamless switching between quadrants

For traditional two-quadrant power supply, there will be a short jump and discontinuity across positive and negative currents. As a high-speed two-quadrant power supply, IT6500C (1800W-30kW) series has Loop-Mode function so as to realize high-speed current transition between power supply mode and electronic load mode, to achieve fast switching between sourcing and sinking current, even can achieve seamless switching under certain conditions, thus avoiding overshoot of voltage or current. That enables it to be suitable for fast battery charging and discharging measurements without sacrificing accuracy and can be widely used in energy storage device testing, such as batteries, battery encapsulation and battery protection panel etc.



### Electric Vehicle Battery Test-Braking Current Regenerative Simulation

Hybrid battery pack



For practical electric vehicle (EV) battery test, the ultra-realistic simulation of regenerative braking current is necessary, the whole test should be finished within 10ms. So the simulation result depends on the response speed of the relating testing device.

1. Traditional solution: Adopt two single units, such as DC Power Supply + Electronic Load, which is of complex configuration, low efficiency and thus can't meet the testing requirements;
2. ITECH solution: IT6500C provides fast and seamless switching across current outputting and sinking, combined with IT-E500 power dissipater unite, IT6500C can meet the testing requirements easily. It is an ideal solution for EV braking current's regenerative battery test.

# Your Power Testing Solution

## IT6500 Wide-range High-power DC Power Supply

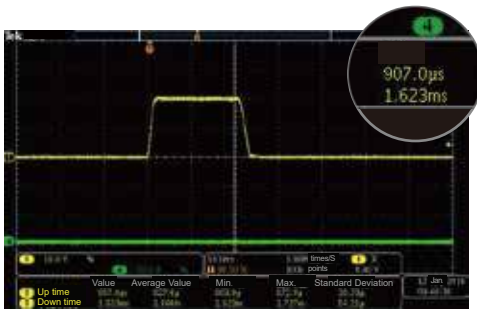
### FAST Fast response

#### Independent settable slew rate in different modes

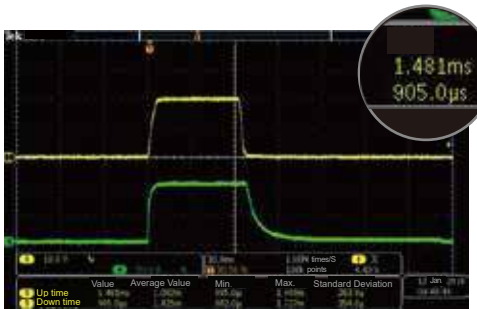
IT6500C series can be used as a power supply and an electronic load. As a power supply, CV, CC, CP modes are available. As an electronic load, CC and CP mode are available. IT6500C supports independent adjustable rise/fall time setting in different modes.

For every single model of IT6500C/D series, no matter it is a single unit or multiple units paralleled together, the rise and fall time of each power supply in IT6500C/D series are the same. Take IT6522C as an example:

- Within 30V voltage range, with 0-90% load, up and down speed <3ms
- Falling time of no load with voltage at full scale:  
Without power dissipater unit, falling time <30ms  
With power dissipater unit, falling time <5ms
- Dynamic response time <3ms



DC ratings of single unit IT6522C: 80V/120A/3000W  
Voltage ratings: 10V  
Current ratings: 120A  
Load Current: 0A



DC ratings of single unit IT6522C: 80V/120A/3000W  
Voltage ratings: 10V  
Current ratings: 120A  
Load Current: 100A

No matter whether it is in the power supply mode (CV, CC, CP) or in the electronic load mode (CC, CP), IT6500 series has adjustable rise and fall time, and the settable range is 1ms-24h.

### CC/CV PRIORITY Fast curve changing without overshoot CC & CV Priority Function

To conquer the demanding testing requirements existing for a long time in various applications, ITECH developed an innovative industry-leading CV & CC priority concept. The IT6500 is available for high-speed test applications with-out overshoot. Users can choose the desired output mode. Voltage high-speed mode or current no overshoot mode by choosing the loop response speed and loop operation mode. It is suitable for high-power integrated circuit test, charging / discharging test, solar array simulation and the transient simulation / characteristic of automotive electronics.



Fast voltage built with turn-on over range inrush current (CV-High, CC-Low, CV takes precedence)



Battery charging / discharging test with seamless and no overshoot switching (CV-High, CC-High, CC takes precedence)

### Maintain excellent performance after paralleling

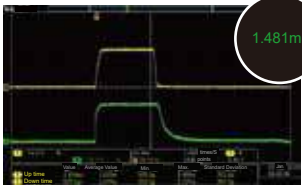
Built-in paralleling of multiple power supplies with even current distribution

IT6500 has built-in paralleling capability up to 30kW. At the same time, IT6500C supports multiple power supplies paralleling together in master-slave mode. Even further it can ensure that each power supply equally shares the load current and they all remain in the desired mode. In the traditional sense, when paralleling power supplies together, different power supplies will operate in different operation modes. For instance, when two sets of power supplies are paralleled together, one will offer a majority of current in CC mode, and the other will offer only a small part of current in CV mode, which will degrade certain power supplies' performance specifications. The even current distribution ability of the IT6500 ensures each power supply equally shares the load current without degrading the performance specifications. When paralleling multiple IT6500 the combined system has all the same functions as a standalone unit. That is a great way to add power flexibility to your test system. What is particularly unusual is that after the expansion of power, IT6500C can still maintain the excellent dynamic characteristics of the single unit to meet the I-V characteristic curve testing demanding a variety of high-power high-speed applications.

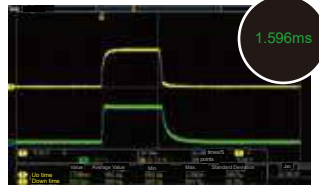
# Your Power Testing Solution

## IT6500 Wide-range High-power DC Power Supply

### Low voltage & high current test

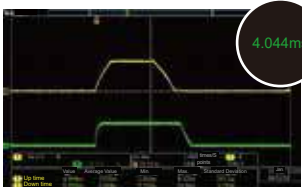


**Standalone set IT6522C**  
80V, 120A, 3000W  
Voltage ratings: 10V  
Current ratings: 120A  
Load current: 100A



**8 sets of IT6522C paralleling together**  
Voltage ratings: 10V  
Current ratings: 960A  
Load current: 800A

### High voltage & low current test

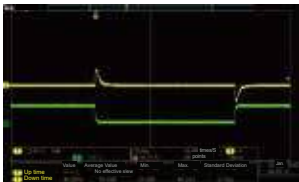


**Standalone set unit IT6522C**  
80V, 120A, 3000W  
Voltage ratings: 80V  
Current ratings: 120A  
Load current: 30A

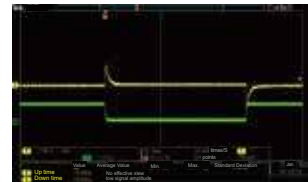


**8 sets of IT6522C paralleling together**  
Voltage ratings: 80V  
Current ratings: 960A  
Load current: 300A

### Dynamic response test



**Standalone set IT6522C**  
80V, 120A, 3000W  
Voltage ratings: 10V  
Current ratings: 120A  
Load current:  
Level A=10A  
Level B=100A  
F=10 Hz



**8 sets of IT6522C paralleling together**  
Voltage ratings: 10V  
Current ratings: 960A  
Load current:  
Level A=100A  
Level B=800A  
F=10Hz

\* Figure: Voltage-Yellow, Current-Green

From the tests, we conclude:

1. Voltage rise time: 8 units of IT6522C paralleling together, the voltage rise time is faster than single unit operation.
2. Fall time: parallel units remain the same as single unit.
3. Dynamic response waveforms: parallel units remain the same as single unit.

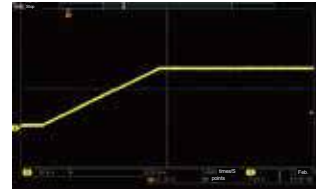


### Simple programming on the front panel (List)

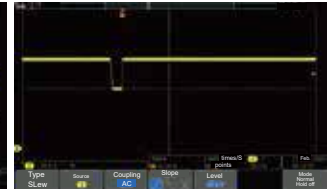
Similar to other modern ITECH products, the IT6500 series provides a user friendly front panel for quick programming without the need for external software.

In list mode, the IT6500 series can store, recall and run the preset customized program sequences via front panel programming. Users can edit the voltage/current value & the time of each step in advance and provide the power supply with a trigger signal. Then the preset sequences / waveform will be executed automatically according to the defined LIST. That's especially suitable for the applications such as DC / DC converters, inverters voltage drop test, engine start-up simulation, battery charging / discharging tests, product life cycle tests and aircraft test etc.

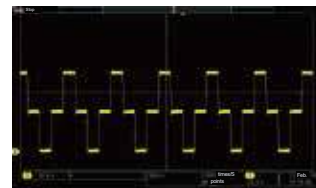
### Waveforms programmed with IT6500 series by engineers



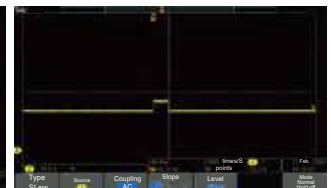
Soft Start Testing



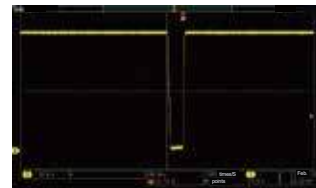
D/D Converter Sag Testing



Voltage Step Waveform



D/D Converter Surge Testing



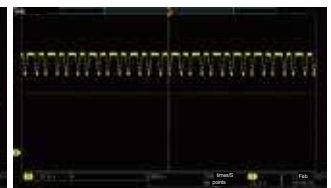
D/D Converter Cycle drop Testing



Life Cycle Testing



Pulse Charge of Battery



Line Regulation Testing

\*Output test with no load

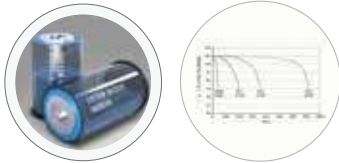
# Your Power Testing Solution

## IT6500 Wide-range High-power DC Power Supply

### Functions for special applications

#### Programmable output impedance

In battery charging and discharging test, the changes of internal resistance should be taken into account. For enhancing test precision, IT6500C series power supply provides built-in internal resistance setting function which can simulate battery operation status in real-case.



Multiple actual working status simulation of batteries

#### Solar panel I-V curve simulation function

IT6500C series high power DC power supply is equipped with SAS1000 solar array simulation software, which can accurately simulate the solar array I-V curve. With built-in EN50530 / Sandia / NB/T32004 / CGC/GF004 / CGC/GF035 SAS module. Users can set the parameters to simulate I-V curve characteristic output and generate reports. These benefit much in test of the static & dynamic maximum power tracking performance of photovoltaic inverters.

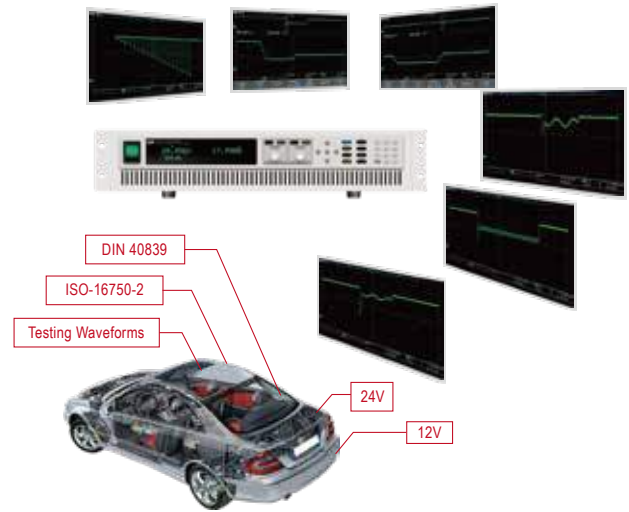
\* SAS1000 solar array simulation software is available for choice



\* Figure: Voltage-Yellow, Current-Green

#### Built-in standard automotive power network voltage curves

The automobile electronics devices must tolerate the dropouts or surges from power turn-on or turn-off transient. For these tests, it is necessary to simulate the worst-case power transient conditions. IT6500C series power supply provide built-in DIN40839, ISO-16750-2, SAEJ1113-11, LV124 and ISO21848 testing curves. Users can select any built-in curve to do the DUT performance test directly according to their demand. 12V, 24V and 48V are available for choice.



### Multiple built-in interfaces\*

In conventional high power test instrument, extra interfaces add cost. In the IT6500 series all the implemented interfaces are built-in standard. Simplifying the configuration process and adding flexibility to change interface used without adding additional cost.

Cost saving	IT6500C	IT6500D	IT6512 IT6513	IT6502D IT6512A IT6513A
Analog control interfaces	√	√	√	√
USB	√	√	√	√
RS232	√	√	√	√
RS485	-	-	√	√
LAN	√	√	-	-
CAN	√	√	-	-

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

### Full protections

Integrating protection measures into test instruments is critical and high cost especially in high power test. To provide fully protections for DUTs, IT6500 series integrate multiple fast protection measures.

These protection capabilities include:

- CC & CV Priority Function to avoid unwanted overshoot
- Power Supply mode: OVP,OCP,OPP
- Electronic Load mode: OCP,OPP,OTP (IT6500C)
- Anti-reverse protection (optional)
- Turn-off protection
- Under voltage protection (UVP)

# Your Power Testing Solution

## IT6500 Wide-range High-power DC Power Supply

Parameter		IT6512C	IT6512D	IT6522C	IT6522D	IT6532C	IT6532D
Output Rating (0°C~40°C)	Voltage	0~80V	0~80V	0~80V	0~80V	0~80V	0~1000V
	Current	0~120A	0~120A	0~120A	0~120A	0~240A	0~20A
	Power	0~1800W	0~1800W	0~3000W	0~3000W	0~6kW	0~6kW
Programmable output resistance		0~3.556Ω	-	0~2.133Ω	-	0~1.067Ω	-
Load Regulation ±(% of Output+Offset)	Voltage	≤0.01%+30mV				≤0.01%+30mV	
	Current	≤0.05%+30mA				≤0.05%+60mA	
Line Regulation ±(% of Output+Offset)	Voltage	≤0.01%+10mV				≤0.01%+10mV	
	Current	≤0.01%+15mA				≤0.01%+30mA	
Setup Resolution	Voltage	10mV				100mV	
	Current	10mA				10mA	
Readback Resolution	Voltage	10mV				100mV	
	Current	10mA				10mA	
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+30mV				≤0.05%+30mV	
	Current	≤0.2%+120mA				≤0.2%+240mA	
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+30mV				≤0.05%+30mV	
	Current	≤0.2%+120mA				≤0.2%+240mA	
Ripple (20Hz~20MHz)	Voltage	≤80mVp-p				≤80mVp-p	
	Current	≤0.05%+60mA Arms				≤0.05%+120mA Arms	
Rise time (no load) *3	Voltage	≤5ms	≤30ms	≤5ms	≤30ms	≤5ms	≤30ms
Fall time (full load) *3	Voltage	≤10ms	≤20ms	≤10ms	≤20ms	≤10ms	≤20ms
Number of Power Dissipators in Parallel		≤3	-	≤3	-	≤6	-
Dimension (mm)		483mmW×105.4mmH×640.8mmD				483mmW×194mmH×640.8mmD	

Parameter		IT6542C	IT6542D	IT6552C	IT6552D
Output Rating (0°C~40°C)	Voltage	0~80V	0~80V	0~80V	0~80V
	Current	0~360A	0~360A	0~480A	0~480A
	Power	0~9kW	0~9kW	0~12kW	0~12kW
Programmable output resistance		0~0.711Ω	-	0~0.133Ω	-
Load Regulation ±(% of Output+Offset)	Voltage	≤0.01%+30mV			≤0.01%+30mV
	Current	≤0.05%+90mA			≤0.05%+120mA
Line Regulation ±(% of Output+Offset)	Voltage	≤0.01%+10mV			≤0.01%+10mV
	Current	≤0.01%+45mA			≤0.01%+60mA
Setup Resolution	Voltage	10mV			10mV
	Current	10mA			10mA
Read back Resolution	Voltage	10mV			10mV
	Current	10mA			10mA
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+30mV			≤0.05%+30mV
	Current	≤0.2%+360mA			≤0.2%+480mA
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+30mV			≤0.05%+30mV
	Current	≤0.2%+360mA			≤0.2%+480mA
Ripple (20Hz~20MHz)	Voltage	≤80mVp-p			≤80mVp-p
	Current	≤0.05%+180mA Arms			≤0.05%+240mA Arms
Rise time (no load) *3	Voltage	≤5ms	≤30ms	≤5ms	≤30ms
Fall time (full load) *3	Voltage	≤10ms	≤20ms	≤10ms	≤20ms
Number of Power Dissipators in Parallel		≤9	-	≤12	-
Dimension (mm)		483mmW×283.2mmH×640.8mmD		554mmW×902mmH×807.5mmD (ITECH 15U)	



# Your Power Testing Solution

## IT6500 Wide-range High-power DC Power Supply

Parameter		IT6562C	IT6562D	IT6572C	IT6572D
Output Rating (0°C~40°C)	Voltage	0~80V	0~80V	0~80V	0~80V
	Current	0~600A	0~600A	0~840A	0~840A
	Power	0~15kW	0~15kW	0~21kW	0~21kW
Programmable output resistance		0~0.107Ω	-	0~0.076Ω	-
Load Regulation ±(% of Output+Offset)	Voltage	≤0.01%+30mV		≤0.01%+30mV	
	Current	≤0.05%+150mA		≤0.05%+210mA	
Line Regulation ±(% of Output+Offset)	Voltage	≤0.01%+10mV		≤0.01%+10mV	
	Current	≤0.01%+75mA		≤0.01%+105mA	
Setup Resolution	Voltage	10mV		10mV	
	Current	10mA		10mA	
Read back Resolution	Voltage	10mV		10mV	
	Current	10mA		10mA	
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+30mV		≤0.05%+30mV	
	Current	≤0.2%+600mA		≤0.2%+840mA	
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+30mV		≤0.05%+30mV	
	Current	≤0.2%+600mA		≤0.2%+840mA	
Ripple (20Hz~20MHz)	Voltage	≤80mVp-p		≤80mVp-p	
	Current	≤0.05%+300mArms		≤0.05%+420mArms	
Rise time (no load) *3	Voltage	≤5ms	≤30ms	≤5ms	≤30ms
Fall time (full load) *3	Voltage	≤10ms	≤20ms	≤10ms	≤20ms
Number of Power Dissipators in Parallel		≤15	-	≤21	-
Dimension (mm)		554mmW×902mmH×807.5mmD (ITECH 15U)		550mmW×1289.3mmH×834.8mmD (ITECH 24U)	

Parameter		IT6582C	IT6582D	IT6592C	IT6592D
Output Rating (0°C~40°C)	Voltage	0~80V	0~80V	0~80V	0~80V
	Current	0~960A	0~960A	0~1200A	0~1200A
	Power	0~24kW	0~24kW	0~30kW	0~30kW
Programmable output resistance		0~0.067Ω	-	0~0.053Ω	-
Load Regulation ±(% of Output+Offset)	Voltage	≤0.01%+30mV		≤0.01%+30mV	
	Current	≤0.05%+240mA		≤0.05%+300mA	
Line Regulation ±(% of Output+Offset)	Voltage	≤0.01%+10mV		≤0.01%+10mV	
	Current	≤0.01%+120mA		≤0.01%+150mA	
Setup Resolution	Voltage	10mV		10mV	
	Current	10mA		10mA	
Read back Resolution	Voltage	10mV		10mV	
	Current	10mA		10mA	
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+30mV		≤0.05%+30mV	
	Current	≤0.2%+960mA		≤0.2%+1200mA	
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+30mV		≤0.05%+30mV	
	Current	≤0.2%+960mA		≤0.2%+1200mA	
Ripple (20Hz~20MHz)	Voltage	≤80mVp-p		≤80mVp-p	
	Current	≤0.05%+480mArms		≤0.05%+600mArms	
Rise time (no load) *3	Voltage	≤5ms	≤30ms	≤5ms	≤30ms
Fall time (full load) *3	Voltage	≤10ms	≤20ms	≤10ms	≤20ms
Number of Power Dissipators in Parallel		≤24	-	≤30	-
Dimension (mm)		550mmW×1289.3mmH×834.8mmD (ITECH 24U)			

\*1 Setup Accuracy refers to users use panel keys or communication commands to achieve setup accuracy; when using external analog programming, the programming accuracy is 1%

\*2 Readback Accuracy refers to users use panel display or communication commands to achieve readback accuracy; when using external analog monitoring, the monitor accuracy is 1%

\*3 Rise and Fall Time refers to the settling time of setup value from one value to another using the internal standard power dissipator in the ON state

# Your Power Testing Solution

## IT6500 Wide-range High-power DC Power Supply

Parameter		IT6513C	IT6513D	IT6523C	IT6523D	IT6533C	IT6533D
Output Rating (0°C~40°C)	Voltage	0~200V	0~200V	0~200V	0~200V	0~200V	0~200V
	Current	0~60A	0~60A	0~60A	0~60A	0~120A	0~120A
	Power	0~1800W	0~1800W	0~3000W	0~3000W	0~6kW	0~6kW
Programmable output resistance		0~22.222Ω	-	0~13Ω	-	0~6.666Ω	-
Load Regulation ±(% of Output+Offset)	Voltage	≤0.01%+50mV				≤0.01%+50mV	
	Current	≤0.05%+20mA				≤0.05%+40mA	
Line Regulation ±(% of Output+Offset)	Voltage	≤0.01%+20mV				≤0.01%+20mV	
	Current	≤0.01%+10mA				≤0.01%+20mA	
Setup Resolution	Voltage	10mV				10mV	
	Current	10mA				10mA	
Readback Resolution	Voltage	10mV				10mV	
	Current	10mA				10mA	
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+100mV				≤0.05%+100mV	
	Current	≤0.2%+60mA				≤0.2%+120mA	
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+100mV				≤0.05%+100mV	
	Current	≤0.2%+60mA				≤0.2%+120mA	
Ripple (20Hz~20MHz)	Voltage	≤200mVp-p				≤200mVp-p	
	Current	≤50mArms				≤100mArms	
Rise time (no load) *3	Voltage	≤15ms	≤100ms	≤15ms	≤100ms	≤15ms	≤100ms
Fall time (full load) *3	Voltage	≤15ms	≤20ms	≤15ms	≤20ms	≤15ms	≤20ms
Number of Power Dissipators in Parallel		≤3	-	≤3	-	≤6	-
Dimension (mm)		483mmW×105.4mmH×640.8mmD				483mmW×194mmH×640.8mmD	

Parameter		IT6543C	IT6543D	IT6553C	IT6553D
Output Rating (0°C~40°C)	Voltage	0~200V	0~200V	0~200V	0~200V
	Current	0~180A	0~180A	0~240A	0~240A
	Power	0~9kW	0~9kW	0~12kW	0~12kW
Programmable output resistance		0~4.444Ω	-	0~3.333Ω	-
Load Regulation ±(% of Output+Offset)	Voltage	≤0.01%+50mV		≤0.01%+50mV	
	Current	≤0.05%+60mA		≤0.05%+80mA	
Line Regulation ±(% of Output+Offset)	Voltage	≤0.01%+20mV		≤0.01%+20mV	
	Current	≤0.01%+30mA		≤0.01%+40mA	
Setup Resolution	Voltage	10mV		10mV	
	Current	10mA		10mA	
Read back Resolution	Voltage	10mV		10mV	
	Current	10mA		10mA	
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+100mV		≤0.05%+100mV	
	Current	≤0.2%+180mA		≤0.2%+240mA	
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+100mV		≤0.05%+100mV	
	Current	≤0.2%+180mA		≤0.2%+240mA	
Ripple (20Hz~20MHz)	Voltage	≤200mVp-p		≤200mVp-p	
	Current	≤150mArms		≤200mArms	
Rise time (no load) *3	Voltage	≤15ms	≤100ms	≤15ms	≤100ms
Fall time (full load) *3	Voltage	≤15ms	≤20ms	≤15ms	≤20ms
Number of Power Dissipators in Parallel		≤9	-	≤12	-
Dimension (mm)		483mmW×283.2mmH×640.8mmD		554mmW×902mmH×807.5mmD (ITECH 15U)	

# Your Power Testing Solution

## IT6500 Wide-range High-power DC Power Supply

Parameter		IT6563C	IT6563D	IT6573C	IT6573D
Output Rating (0°C~40°C)	Voltage	0~200V	0~200V	0~200V	0~200V
	Current	0~300A	0~300A	0~420A	0~420A
	Power	0~15kW	0~15kW	0~21kW	0~21kW
Programmable output resistance		0~2.666Ω	-	0~0.076Ω	-
Load Regulation ±(% of Output+Offset)	Voltage	≤0.01%+50mV		≤0.01%+50mV	
	Current	≤0.05%+100mA		≤0.05%+140mA	
Line Regulation ±(% of Output+Offset)	Voltage	≤0.01%+20mV		≤0.01%+20mV	
	Current	≤0.01%+50mA		≤0.01%+70mA	
Setup Resolution	Voltage	10mV		10mV	
	Current	10mA		10mA	
Read back Resolution	Voltage	10mV		10mV	
	Current	10mA		10mA	
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+100mV		≤0.05%+100mV	
	Current	≤0.2%+300mA		≤0.2%+420mA	
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+100mV		≤0.05%+100mV	
	Current	≤0.2%+300mA		≤0.2%+420mA	
Ripple (20Hz~20MHz)	Voltage	≤200mVp-p		≤200mVp-p	
	Current	≤250mArms		≤350mArms	
Rise time (no load) *3	Voltage	≤15ms	≤100ms	≤15ms	≤100ms
Fall time (full load) *3	Voltage	≤15ms	≤20ms	≤15ms	≤20ms
Number of Power Dissipators in Parallel		≤15	-	≤21	-
Dimension (mm)		554mmW×902mmH×807.5mmD (ITECH 15U)		550mmW×1289.3mmH×834.8mmD (ITECH 24U)	

Parameter		IT6583C	IT6583D	IT6593C	IT6593D
Output Rating (0°C~40°C)	Voltage	0~200V	0~200V	0~200V	0~200V
	Current	0~480A	0~480A	0~600A	0~600A
	Power	0~24kW	0~24kW	0~30kW	0~30kW
Programmable output resistance		0~1.666Ω	-	0~1.333Ω	-
Load Regulation ±(% of Output+Offset)	Voltage	≤0.01%+50mV		≤0.01%+50mV	
	Current	≤0.05%+160mA		≤0.05%+200mA	
Line Regulation ±(% of Output+Offset)	Voltage	≤0.01%+20mV		≤0.01%+20mV	
	Current	≤0.01%+80mA		≤0.01%+100mA	
Setup Resolution	Voltage	10mV		10mV	
	Current	10mA		10mA	
Read back Resolution	Voltage	10mV		10mV	
	Current	10mA		10mA	
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+100mV		≤0.05%+100mV	
	Current	≤0.2%+480mA		≤0.2%+600mA	
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+100mV		≤0.05%+100mV	
	Current	≤0.2%+480mA		≤0.2%+600mA	
Ripple (20Hz~20MHz)	Voltage	≤200mVp-p		≤200mVp-p	
	Current	≤400mArms		≤500mArms	
Rise time (no load) *3	Voltage	≤15ms	≤100ms	≤15ms	≤100ms
Fall time (full load) *3	Voltage	≤15ms	≤20ms	≤15ms	≤20ms
Number of Power Dissipators in Parallel		≤24	-	≤30	-
Dimension (mm)		550mmW×1289.3mmH×834.8mmD (ITECH 24U)			

\*1 Setup Accuracy refers to users use panel keys or communication commands to achieve setup accuracy; when using external analog programming, the programming accuracy is 1%

\*2 Readback Accuracy refers to users use panel display or communication commands to achieve readback accuracy; when using external analog monitoring, the monitor accuracy is 1%

\*3 Rise and Fall Time refers to the settling time of setup value from one value to another using the internal standard power dissipator in the ON state

# Your Power Testing Solution

## IT6500 Wide-range High-power DC Power Supply

Parameter		IT6514C	IT6514D	IT6524C	IT6524D	IT6534C	IT6534D
Output Rating (0°C~40°C)	Voltage	0~360V	0~360V	0~360V	0~360V	0~360V	0~360V
	Current	0~30A	0~30A	0~30A	0~30A	0~60A	0~60A
	Power	0~1800W	0~1800W	0~3000W	0~3000W	0~6kW	0~6kW
Programmable output resistance		0~72Ω	-	0~43.2Ω	-	0~21.6Ω	-
Load Regulation ±(%of Output+Offset)	Voltage	≤0.01%+135mV				≤0.01%+135mV	
	Current	≤0.05%+15mA				≤0.05%+30mA	
Line Regulation ±(%of Output+Offset)	Voltage	≤0.01%+40mV				≤0.01%+40mV	
	Current	≤0.01%+5mA				≤0.01%+10mA	
Setup Resolution	Voltage	10mV				10mV	
	Current	10mA				10mA	
Readback Resolution	Voltage	10mV				10mV	
	Current	10mA				10mA	
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(%of Output+Offset)	Voltage	≤0.05%+135mV				≤0.05%+135mV	
	Current	≤0.2%+30mA				≤0.2%+60mA	
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(%of Output+Offset)	Voltage	≤0.05%+135mV				≤0.05%+135mV	
	Current	≤0.2%+30mA				≤0.2%+60mA	
Ripple (20Hz~20MHz)	Voltage	≤360mVp-p				≤360mVp-p	
	Current	≤0.05%+30mArms				≤0.05%+60mArms	
Rise time (no load) *3	Voltage	≤50ms	≤250ms	≤50ms	≤250ms	≤50ms	≤250ms
Fall time (full load) *3	Voltage	≤55ms	≤70ms	≤55ms	≤70ms	≤55ms	≤70ms
Number of Power Dissipators in Parallel		≤3	-	≤3	-	≤6	-
Dimension (mm)		483mmW×105.4mmH×640.8mmD				483mmW×194mmH×640.8mmD	

Parameter		IT6544C	IT6544D	IT6554C	IT6554D
Output Rating (0°C~40°C)	Voltage	0~360V	0~360V	0~360V	0~360V
	Current	0~90A	0~90A	0~120A	0~120A
	Power	0~9kW	0~9kW	0~12kW	0~12kW
Programmable output resistance		0~14.4Ω	-	0~10.8Ω	-
Load Regulation ±(%of Output+Offset)	Voltage	≤0.01%+135mV			≤0.01%+135mV
	Current	≤0.05%+45mA			≤0.05%+60mA
Line Regulation ±(%of Output+Offset)	Voltage	≤0.01%+40mV			≤0.01%+40mV
	Current	≤0.01%+15mA			≤0.01%+20mA
Setup Resolution	Voltage	10mV			10mV
	Current	10mA			10mA
Read back Resolution	Voltage	10mV			10mV
	Current	10mA			10mA
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(%of Output+Offset)	Voltage	≤0.05%+135mV			≤0.05%+135mV
	Current	≤0.2%+90mA			≤0.2%+120mA
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(%of Output+Offset)	Voltage	≤0.05%+135mV			≤0.05%+135mV
	Current	≤0.2%+90mA			≤0.2%+120mA
Ripple (20Hz~20MHz)	Voltage	≤360mVp-p			≤360mVp-p
	Current	≤0.05%+90mArms			≤0.05%+120mArms
Rise time (no load) *3	Voltage	≤50ms	≤250ms	≤50ms	≤250ms
Fall time (full load) *3	Voltage	≤55ms	≤70ms	≤55ms	≤70ms
Number of Power Dissipators in Parallel		≤9	-	≤12	-
Dimension (mm)		483mmW×283.2mmH×640.8mmD		554mmW×902mmH×807.5mmD (ITECH 15U)	

# Your Power Testing Solution

## IT6500 Wide-range High-power DC Power Supply

Parameter		IT6564C	IT6564D	IT6574C	IT6574D
Output Rating (0°C~40°C)	Voltage	0~360V	0~360V	0~360V	0~360V
	Current	0~150A	0~150A	0~210A	0~210A
	Power	0~15kW	0~15kW	0~21kW	0~21kW
Programmable output resistance		0~8.64Ω	-	0~6.171Ω	-
Load Regulation ±(%of Output+Offset)	Voltage	≤0.01%+135mV		≤0.01%+135mV	
	Current	≤0.05%+75mA		≤0.05%+105mA	
Line Regulation ±(%of Output+Offset)	Voltage	≤0.01%+40mV		≤0.01%+40mV	
	Current	≤0.01%+25mA		≤0.01%+35mA	
Setup Resolution	Voltage	10mV		10mV	
	Current	10mA		10mA	
Read back Resolution	Voltage	10mV		10mV	
	Current	10mA		10mA	
Setup Accuracy *1 (Within 12 months,25°C±5°C) ±(%of Output+Offset)	Voltage	≤0.05%+135mV		≤0.05%+135mV	
	Current	≤0.2%+150mA		≤0.2%+210mA	
Readback Accuracy *2 (Within 12 months,25°C±5°C) ±(%of Output+Offset)	Voltage	≤0.05%+135mV		≤0.05%+135mV	
	Current	≤0.2%+150mA		≤0.2%+210mA	
Ripple (20Hz~20MHz)	Voltage	≤360mVp-p		≤360mVp-p	
	Current	≤0.05%+150mArms		≤0.05%+210mArms	
Rise time (no load) *3	Voltage	≤50ms	≤100ms	≤50ms	≤100ms
Fall time (full load) *3	Voltage	≤55ms	≤20ms	≤55ms	≤20ms
Number of Power Dissipators in Parallel		≤15	-	≤21	-
Dimension (mm)		554mmW×902mmH×807.5mmD (ITECH 15U)		550mmW×1289.3mmH×834.8mmD (ITECH 24U)	

Parameter		IT6584C	IT6584D	IT6594C	IT6594D
Output Rating (0°C~40°C)	Voltage	0~360V	0~360V	0~360V	0~360V
	Current	0~240A	0~240A	0~300A	0~300A
	Power	0~24kW	0~24kW	0~30kW	0~30kW
Programmable output resistance		0~5.4Ω	-	0~4.32Ω	-
Load Regulation ±(%of Output+Offset)	Voltage	≤0.01%+135mV		≤0.01%+135mV	
	Current	≤0.05%+120mA		≤0.05%+150mA	
Line Regulation ±(%of Output+Offset)	Voltage	≤0.01%+40mV		≤0.01%+45mV	
	Current	≤0.01%+40mA		≤0.01%+50mA	
Setup Resolution	Voltage	10mV		10mV	
	Current	10mA		10mA	
Read back Resolution	Voltage	10mV		10mV	
	Current	10mA		10mA	
Setup Accuracy *1 (Within 12 months,25°C±5°C) ±(%of Output+Offset)	Voltage	≤0.05%+135mV		≤0.05%+135mV	
	Current	≤0.2%+240mA		≤0.2%+300mA	
Readback Accuracy *2 (Within 12 months,25°C±5°C) ±(%of Output+Offset)	Voltage	≤0.05%+135mV		≤0.05%+135mV	
	Current	≤0.2%+240mA		≤0.2%+300mA	
Ripple (20Hz~20MHz)	Voltage	≤360mVp-p		≤360mVp-p	
	Current	≤0.05%+240mArms		≤0.05%+300mArms	
Rise time (no load) *3	Voltage	≤50ms	≤250ms	≤50ms	≤250ms
Fall time (full load) *3	Voltage	≤55ms	≤70ms	≤55ms	≤70ms
Number of Power Dissipators in Parallel		≤24	-	≤30	-
Dimension (mm)		550mmW×1289.3mmH×834.8mmD (ITECH 24U)			

\*1 Setup Accuracy refers to users use panel keys or communication commands to achieve setup accuracy; when using external analog programming, the programming accuracy is 1%

\*2 Readback Accuracy refers to users use panel display or communication commands to achieve readback accuracy; when using external analog monitoring, the monitor accuracy is 1%

\*3 Rise and Fall Time refers to the settling time of setup value from one value to another using the internal standard power dissipator in the ON state

# Your Power Testing Solution

## IT6500 Wide-range High-power DC Power Supply

Parameter		IT6515C	IT6515D	IT6525C	IT6525D	IT6535C	IT6535D
Output Rating (0°C~40°C)	Voltage	0~500V	0~500V	0~500V	0~500V	0~500V	0~500V
	Current	0~20A	0~20A	0~20A	0~20A	0~40A	0~40A
	Power	0~1800W	0~1800W	0~3000W	0~3000W	0~6kW	0~6kW
Programmable output resistance		0~138.88Ω	-	0~83.33Ω	-	0~41.66Ω	-
Load Regulation ±(%of Output+Offset)	Voltage	≤0.01%+100mV				≤0.01%+100mV	
	Current	≤0.05%+20mA				≤0.05%+40mA	
Line Regulation ±(%of Output+Offset)	Voltage	≤0.01%+50mV				≤0.01%+50mV	
	Current	≤0.01%+5mA				≤0.01%+10mA	
Setup Resolution	Voltage	100mV				100mV	
	Current	10mA				10mA	
Readback Resolution	Voltage	100mV				100mV	
	Current	10mA				10mA	
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(%of Output+Offset)	Voltage	≤0.05%+200mV				≤0.05%+200mV	
	Current	≤0.2%+20mA				≤0.2%+40mA	
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(%of Output+Offset)	Voltage	≤0.05%+200mV				≤0.05%+200mV	
	Current	≤0.2%+20mA				≤0.2%+40mA	
Ripple (20Hz~20MHz)	Voltage	≤500mVp-p				≤500mVp-p	
	Current	≤40mArms				≤80mArms	
Rise time (no load) *3	Voltage	≤40ms	≤200ms	≤40ms	≤200ms	≤40ms	≤200ms
Fall time (full load) *3	Voltage	≤25ms	≤30ms	≤25ms	≤30ms	≤25ms	≤30ms
Number of Power Dissipators in Parallel		≤3	-	≤3	-	≤6	-
Dimension (mm)		483mmW×105.4mmH×640.8mmD				483mmW×194mmH×640.8mmD	

Parameter		IT6545C	IT6545D	IT6555C	IT6555D
Output Rating (0°C~40°C)	Voltage	0~500V	0~500V	0~500V	0~500V
	Current	0~60A	0~60A	0~80A	0~80A
	Power	0~9kW	0~9kW	0~12kW	0~12kW
Programmable output resistance		0~27.77Ω	-	0~20.83Ω	-
Load Regulation ±(%of Output+Offset)	Voltage	≤0.01%+100mV		≤0.01%+100mV	
	Current	≤0.05%+60mA		≤0.05%+80mA	
Line Regulation ±(%of Output+Offset)	Voltage	≤0.01%+50mV		≤0.01%+50mV	
	Current	≤0.01%+15mA		≤0.01%+20mA	
Setup Resolution	Voltage	100mV		100mV	
	Current	10mA		10mA	
Read back Resolution	Voltage	100mV		100mV	
	Current	10mA		10mA	
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(%of Output+Offset)	Voltage	≤0.05%+200mV		≤0.05%+200mV	
	Current	≤0.2%+60mA		≤0.2%+80mA	
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(%of Output+Offset)	Voltage	≤0.05%+200mV		≤0.05%+200mV	
	Current	≤0.2%+60mA		≤0.2%+80mA	
Ripple (20Hz~20MHz)	Voltage	≤500mVp-p		≤500mVp-p	
	Current	≤120mArms		≤160mArms	
Rise time (no load) *3	Voltage	≤40ms	≤200ms	≤40ms	≤200ms
Fall time (full load) *3	Voltage	≤25ms	≤30ms	≤25ms	≤30ms
Number of Power Dissipators in Parallel		≤9	-	≤12	-
Dimension (mm)		483mmW×283.2mmH×640.8mmD		554mmW×902mmH×807.5mmD (ITECH 15U)	

# Your Power Testing Solution

## IT6500 Wide-range High-power DC Power Supply

Parameter		IT6565C	IT6565D	IT6575C	IT6575D
Output Rating (0°C~40°C)	Voltage	0~500V	0~500V	0~500V	0~500V
	Current	0~100A	0~100A	0~140A	0~140A
	Power	0~15kW	0~15kW	0~21kW	0~21kW
Programmable output resistance		0~16.667Ω	-	0~11.90Ω	-
Load Regulation ±(% of Output+Offset)	Voltage	≤0.01%+100mV		≤0.01%+100mV	
	Current	≤0.05%+100mA		≤0.05%+140mA	
Line Regulation ±(% of Output+Offset)	Voltage	≤0.01%+50mV		≤0.01%+50mV	
	Current	≤0.01%+25mA		≤0.01%+35mA	
Setup Resolution	Voltage	100mV		100mV	
	Current	10mA		10mA	
Read back Resolution	Voltage	100mV		100mV	
	Current	10mA		10mA	
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+200mV		≤0.05%+200mV	
	Current	≤0.2%+100mA		≤0.2%+140mA	
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.03%+200mV		≤0.05%+200mV	
	Current	≤0.2%+100mA		≤0.2%+140mA	
Ripple (20Hz~20MHz)	Voltage	≤500mVp-p		≤500mVp-p	
	Current	≤200mArms		≤280mArms	
Rise time (no load) *3	Voltage	≤40ms	≤200ms	≤40ms	≤200ms
Fall time (full load) *3	Voltage	≤25ms	≤30ms	≤25ms	≤30ms
Number of Power Dissipators in Parallel		≤15	-	≤21	-
Dimension (mm)		554mmW×902mmH×807.5mmD (ITECH 15U)		550mmW×1289.3mmH×834.8mmD (ITECH 24U)	

Parameter		IT6585C	IT6585D	IT6595C	IT6595D
Output Rating (0°C~40°C)	Voltage	0~500V	0~500V	0~500V	0~500V
	Current	0~160A	0~160A	0~200A	0~200A
	Power	0~24kW	0~24kW	0~30kW	0~30kW
Programmable output resistance		0~10.417Ω	-	0~8.33Ω	-
Load Regulation ±(% of Output+Offset)	Voltage	≤0.01%+100mV		≤0.01%+100mV	
	Current	≤0.05%+160mA		≤0.05%+200mA	
Line Regulation ±(% of Output+Offset)	Voltage	≤0.01%+50mV		≤0.01%+50mV	
	Current	≤0.01%+40mA		≤0.01%+50mA	
Setup Resolution	Voltage	100mV		100mV	
	Current	10mA		10mA	
Read back Resolution	Voltage	100mV		100mV	
	Current	10mA		10mA	
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+200mV		≤0.05%+200mV	
	Current	≤0.2%+160mA		≤0.2%+200mA	
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+200mV		≤0.05%+200mV	
	Current	≤0.2%+160mA		≤0.2%+200mA	
Ripple (20Hz~20MHz)	Voltage	≤500mVp-p		≤500mVp-p	
	Current	≤320mArms		≤400mArms	
Rise time (no load) *3	Voltage	≤40ms	≤200ms	≤40ms	≤200ms
Fall time (full load) *3	Voltage	≤25ms	≤30ms	≤25ms	≤30ms
Number of Power Dissipators in Parallel		≤24	-	≤30	-
Dimension (mm)		550mmW×1289.3mmH×834.8mmD (ITECH 24U)			

\*1 Setup Accuracy refers to users use panel keys or communication commands to achieve setup accuracy; when using external analog programming, the programming accuracy is 1%

\*2 Readback Accuracy refers to users use panel display or communication commands to achieve readback accuracy; when using external analog monitoring, the monitor accuracy is 1%

\*3 Rise and Fall Time refers to the settling time of setup value from one value to another using the internal standard power dissipator in the ON state

# Your Power Testing Solution

## IT6500 Wide-range High-power DC Power Supply

Parameter		IT6516C	IT6516D	IT6526C	IT6526D	IT6536C	IT6536D
Output Rating (0°C~40°C)	Voltage	0~750V	0~750V	0~750V	0~750V	0~750V	0~750V
	Current	0~15A	0~15A	0~15A	0~15A	0~30A	0~30A
	Power	0~1800W	0~1800W	0~3000W	0~3000W	0~6kW	0~6kW
Programmable output resistance		0~312.5Ω	-	0~188Ω	-	0~93.75Ω	-
Load Regulation ±(% of Output+Offset)	Voltage	≤0.01%+200mV				≤0.01%+200mV	
	Current	≤0.05%+15mA				≤0.05%+30mA	
Line Regulation ±(% of Output+Offset)	Voltage	≤0.01%+75mV				≤0.01%+75mV	
	Current	≤0.1%+5mA				≤0.1%+10mA	
Setup Resolution	Voltage	100mV				100mV	
	Current	10mA				10mA	
Readback Resolution	Voltage	100mV				100mV	
	Current	10mA				10mA	
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+300mV				≤0.05%+300mV	
	Current	≤0.2%+15mA				≤0.2%+30mA	
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+300mV				≤0.05%+300mV	
	Current	≤0.2%+15mA				≤0.2%+30mA	
Ripple (20Hz~20MHz)	Voltage	≤750mVp-p				≤750mVp-p	
	Current	≤30mArms				≤60mArms	
Rise time (no load) *3	Voltage	≤50ms	≤250ms	≤50ms	≤250ms	≤50ms	≤250ms
Fall time (full load) *3	Voltage	≤20ms	≤20ms	≤20ms	≤20ms	≤20ms	≤20ms
Number of Power Dissipators in Parallel		≤3	-	≤3	-	≤6	-
Dimension (mm)		483mmW×105.4mmH×640.8mmD				483mmW×194mmH×640.8mmD	

Parameter		IT6546C	IT6546D	IT6556C	IT6556D
Output Rating (0°C~40°C)	Voltage	0~750V	0~750V	0~750V	0~750V
	Current	0~45A	0~45A	0~60A	0~60A
	Power	0~9kW	0~9kW	0~12kW	0~12kW
Programmable output resistance		0~62.5Ω	-	0~46.87Ω	-
Load Regulation ±(% of Output+Offset)	Voltage	≤0.01%+200mV		≤0.01%+200mV	
	Current	≤0.05%+45mA		≤0.05%+60mA	
Line Regulation ±(% of Output+Offset)	Voltage	≤0.01%+75mV		≤0.01%+75mV	
	Current	≤0.1%+15mA		≤0.1%+20mA	
Setup Resolution	Voltage	100mV		100mV	
	Current	10mA		10mA	
Read back Resolution	Voltage	100mV		100mV	
	Current	10mA		10mA	
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+300mV		≤0.05%+300mV	
	Current	≤0.2%+45mA		≤0.2%+60mA	
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+300mV		≤0.05%+300mV	
	Current	≤0.2%+45mA		≤0.2%+60mA	
Ripple (20Hz~20MHz)	Voltage	≤750mVp-p		≤750mVp-p	
	Current	≤90mArms		≤120mArms	
Rise time (no load) *3	Voltage	≤50ms	≤250ms	≤50ms	≤250ms
Fall time (full load) *3	Voltage	≤20ms	≤20ms	≤20ms	≤20ms
Number of Power Dissipators in Parallel		≤9	-	≤12	-
Dimension (mm)		483mmW×283.2mmH×640.8mmD		554mmW×902mmH×807.5mmD (ITECH 15U)	



# Your Power Testing Solution

## IT6500 Wide-range High-power DC Power Supply

Parameter		IT6566C	IT6566D	IT6576C	IT6576D
Output Rating (0°C~40°C)	Voltage	0~750V	0~750V	0~750V	0~750V
	Current	0~75A	0~75A	0~105A	0~105A
	Power	0~15kW	0~15kW	0~21kW	0~21kW
Programmable output resistance		0~37.5Ω	-	0~26.8Ω	-
Load Regulation ±(% of Output+Offset)	Voltage	≤0.01%+200mV		≤0.01%+200mV	
	Current	≤0.05%+75mA		≤0.05%+105mA	
Line Regulation ±(% of Output+Offset)	Voltage	≤0.01%+75mV		≤0.01%+75mV	
	Current	≤0.1%+25mA		≤0.1%+35mA	
Setup Resolution	Voltage	100mV		100mV	
	Current	10mA		10mA	
Read back Resolution	Voltage	100mV		100mV	
	Current	10mA		10mA	
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+300mV		≤0.05%+300mV	
	Current	≤0.2%+75mA		≤0.2%+105mA	
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+300mV		≤0.05%+300mV	
	Current	≤0.2%+75mA		≤0.2%+105mA	
Ripple (20Hz~20MHz)	Voltage	≤750mVp-p		≤750mVp-p	
	Current	≤150mArms		≤210mArms	
Rise time (no load) *3	Voltage	≤50ms	≤250ms	≤50ms	≤250ms
Fall time (full load) *3	Voltage	≤20ms	≤20ms	≤20ms	≤20ms
Number of Power Dissipators in Parallel		≤15	-	≤21	-
Dimension (mm)		554mmW×902mmH×807.5mmD (ITECH 15U)		550mmW×1289.3mmH×834.8mmD (ITECH 24U)	

Parameter		IT6586C	IT6586D	IT6596C	IT6596D
Output Rating (0°C~40°C)	Voltage	0~750V	0~750V	0~750V	0~750V
	Current	0~120A	0~120A	0~150A	0~150A
	Power	0~24kW	0~24kW	0~30kW	0~30kW
Programmable output resistance		0~23.4Ω	-	0~18.75Ω	-
Load Regulation ±(% of Output+Offset)	Voltage	≤0.01%+200mV		≤0.01%+200mV	
	Current	≤0.05%+120mA		≤0.05%+150mA	
Line Regulation ±(% of Output+Offset)	Voltage	≤0.01%+75mV		≤0.01%+75mV	
	Current	≤0.1%+40mA		≤0.1%+50mA	
Setup Resolution	Voltage	100mV		100mV	
	Current	10mA		10mA	
Read back Resolution	Voltage	100mV		100mV	
	Current	10mA		10mA	
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+300mV		≤0.05%+300mV	
	Current	≤0.2%+120mA		≤0.2%+150mA	
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+300mV		≤0.05%+300mV	
	Current	≤0.2%+120mA		≤0.2%+150mA	
Ripple (20Hz~20MHz)	Voltage	≤750mVp-p		≤750mVp-p	
	Current	≤240mArms		≤300mArms	
Rise time (no load) *3	Voltage	≤50ms	≤250ms	≤50ms	≤250ms
Fall time (full load) *3	Voltage	≤20ms	≤20ms	≤20ms	≤20ms
Number of Power Dissipators in Parallel		≤24	-	≤30	-
Dimension (mm)		550mmW×1289.3mmH×834.8mmD (ITECH 24U)			

\*1 Setup Accuracy refers to users use panel keys or communication commands to achieve setup accuracy; when using external analog programming, the programming accuracy is 1%

\*2 Readback Accuracy refers to users use panel display or communication commands to achieve readback accuracy; when using external analog monitoring, the monitor accuracy is 1%

\*3 Rise and Fall Time refers to the settling time of setup value from one value to another using the internal standard power dissipator in the ON state

# Your Power Testing Solution

## IT6500 Wide-range High-power DC Power Supply

Parameter		IT6517C	IT6517D	IT6527C	IT6527D	IT6537C	IT6537D
Output Rating (0°C~40°C)	Voltage	0~1000V	0~1000V	0~1000V	0~1000V	0~1000V	0~1000V
	Current	0~10A	0~10A	0~10A	0~10A	0~20A	0~20A
	Power	0~1800W	0~1800W	0~3000W	0~3000W	0~6kW	0~6kW
Programmable output resistance		0~555.555Ω	-	0~333.333Ω	-	0~166.666Ω	-
Load Regulation ±(% of Output+Offset)	Voltage	≤0.01%+375mV				≤0.01%+375mV	
	Current	≤0.05%+5mA				≤0.05%+10mA	
Line Regulation ±(% of Output+Offset)	Voltage	≤0.01%+100mV				≤0.01%+100mV	
	Current	≤0.01%+5mA				≤0.01%+10mA	
Setup Resolution	Voltage	100mV				100mV	
	Current	1mA				1mA	
Readback Resolution	Voltage	100mV				100mV	
	Current	1mA				1mA	
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+375mV				≤0.05%+375mV	
	Current	≤0.2%+10mA				≤0.2%+20mA	
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+375mV				≤0.05%+375mV	
	Current	≤0.2%+10mA				≤0.2%+20mA	
Ripple (20Hz~20MHz)	Voltage	≤1Vp-p				≤1Vp-p	
	Current	≤0.05%+10mA Arms				≤0.05%+20mA Arms	
Rise time (no load) *3	Voltage	≤70ms	≤300ms	≤70ms	≤300ms	≤70ms	≤300ms
Fall time (full load) *3	Voltage	≤30ms	≤30ms	≤30ms	≤30ms	≤30ms	≤30ms
Number of Power Dissipators in Parallel		≤3	-	≤3	-	≤6	-
Dimension (mm)		483mmW×105.4mmH×640.8mmD				483mmW×194mmH×640.8mmD	

Parameter		IT6547C	IT6547D	IT6557C	IT6557D
Output Rating (0°C~40°C)	Voltage	0~1000V	0~1000V	0~1000V	0~1000V
	Current	0~30A	0~30A	0~40A	0~40A
	Power	0~9kW	0~9kW	0~12kW	0~12kW
Programmable output resistance		0~111.111Ω	-	0~83.333Ω	-
Load Regulation ±(% of Output+Offset)	Voltage	≤0.01%+375mV		≤0.01%+375mV	
	Current	≤0.05%+15mA		≤0.05%+20mA	
Line Regulation ±(% of Output+Offset)	Voltage	≤0.01%+100mV		≤0.01%+100mV	
	Current	≤0.01%+15mA		≤0.01%+20mA	
Setup Resolution	Voltage	100mV		100mV	
	Current	1mA		1mA	
Read back Resolution	Voltage	100mV		100mV	
	Current	1mA		1mA	
Setup Accuracy *1 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+375mV		≤0.05%+375mV	
	Current	≤0.2%+30mA		≤0.2%+40mA	
Readback Accuracy *2 (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.05%+375mV		≤0.05%+375mV	
	Current	≤0.2%+30mA		≤0.2%+40mA	
Ripple (20Hz~20MHz)	Voltage	≤1Vp-p		≤1Vp-p	
	Current	≤0.05%+30mA Arms		≤0.05%+40mA Arms	
Rise time (no load) *3	Voltage	≤70ms	≤300ms	≤70ms	≤300ms
Fall time (full load) *3	Voltage	≤30ms	≤30ms	≤30ms	≤30ms
Number of Power Dissipators in Parallel		≤9	-	≤12	-
Dimension (mm)		483mmW×283.2mmH×640.8mmD		554mmW×902mmH×807.5mmD (ITECH 15U)	

# Your Power Testing Solution

## IT6500 Wide-range High-power DC Power Supply

Parameter		IT6567C	IT6567D	IT6577C	IT6577D
Output Rating (0°C~40°C)	Voltage	0~1000V	0~1000V	0~1000V	0~1000V
	Current	0~50A	0~50A	0~70A	0~70A
	Power	0~15kW	0~15kW	0~21kW	0~21kW
Programmable output resistance		0~66.666Ω	-	0~47.622Ω	-
Load Regulation ±(%of Output+Offset)	Voltage	≤0.01%+375mV		≤0.01%+375mV	
	Current	≤0.05%+25mA		≤0.05%+35mA	
Line Regulation ±(%of Output+Offset)	Voltage	≤0.01%+100mV		≤0.01%+100mV	
	Current	≤0.01%+25mA		≤0.01%+35mA	
Setup Resolution	Voltage	100mV		100mV	
	Current	1mA		1mA	
Read back Resolution	Voltage	100mV		100mV	
	Current	1mA		1mA	
Setup Accuracy *1 (Within 12 months,25°C±5°C) ±(%of Output+Offset)	Voltage	≤0.05%+375mV		≤0.05%+375mV	
	Current	≤0.2%+50mA		≤0.2%+70mA	
Readback Accuracy *2 (Within 12 months,25°C±5°C) ±(%of Output+Offset)	Voltage	≤0.05%+375mV		≤0.05%+375mV	
	Current	≤0.2%+50mA		≤0.2%+70mA	
Ripple (20Hz~20MHz)	Voltage	≤1Vp-p		≤1Vp-p	
	Current	≤0.05%+50mArms		≤0.05%+70mArms	
Rise time (no load) *3	Voltage	≤70ms	≤300ms	≤70ms	≤300ms
Fall time (full load) *3	Voltage	≤30ms	≤30ms	≤30ms	≤30ms
Number of Power Dissipators in Parallel		≤15	-	≤21	-
Dimension (mm)		554mmW×902mmH×807.5mmD (ITECH 15U)		550mmW×1289.3mmH×834.8mmD (ITECH 24U)	

Parameter		IT6587C	IT6587D	IT6597C	IT6597D
Output Rating (0°C~40°C)	Voltage	0~1000V	0~1000V	0~1000V	0~1000V
	Current	0~80A	0~80A	0~100A	0~100A
	Power	0~24kW	0~24kW	0~30kW	0~30kW
Programmable output resistance		0~41.666Ω	-	0~33.333Ω	-
Load Regulation ±(%of Output+Offset)	Voltage	≤0.01%+375mV		≤0.01%+375mV	
	Current	≤0.05%+40mA		≤0.05%+50mA	
Line Regulation ±(%of Output+Offset)	Voltage	≤0.01%+100mV		≤0.01%+100mV	
	Current	≤0.01%+40mA		≤0.01%+50mA	
Setup Resolution	Voltage	100mV		100mV	
	Current	1mA		1mA	
Read back Resolution	Voltage	100mV		100mV	
	Current	1mA		1mA	
Setup Accuracy *1 (Within 12 months,25°C±5°C) ±(%of Output+Offset)	Voltage	≤0.05%+375mV		≤0.05%+375mV	
	Current	≤0.2%+80mA		≤0.2%+100mA	
Readback Accuracy *2 (Within 12 months,25°C±5°C) ±(%of Output+Offset)	Voltage	≤0.05%+375mV		≤0.05%+375mV	
	Current	≤0.2%+80mA		≤0.2%+100mA	
Ripple (20Hz~20MHz)	Voltage	≤1Vp-p		≤1Vp-p	
	Current	≤0.05%+80mArms		≤0.05%+100mArms	
Rise time (no load) *3	Voltage	≤70ms	≤300ms	≤70ms	≤300ms
Fall time (full load) *3	Voltage	≤30ms	≤30ms	≤30ms	≤30ms
Number of Power Dissipators in Parallel		≤24	-	≤30	-
Dimension (mm)		550mmW×1289.3mmH×834.8mmD (ITECH 24U)			

\*1 Setup Accuracy refers to users use panel keys or communication commands to achieve setup accuracy; when using external analog programming, the programming accuracy is 1%

\*2 Readback Accuracy refers to users use panel display or communication commands to achieve readback accuracy; when using external analog monitoring, the monitor accuracy is 1%

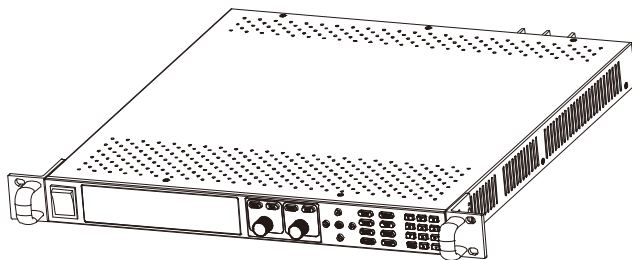
\*3 Rise and Fall Time refers to the settling time of setup value from one value to another using the internal standard power dissipator in the ON state

# Your Power Testing Solution

## IT6500 Wide-range High-power DC Power Supply

Parameter		IT6502D	IT6512	IT6512A	IT6513	IT6513A
Output Rating (0°C~40°C)	Voltage	0~80V	0~80V	0~80V	0~150V	0~150V
	Current	0~60A	0~60A	0~60A	0~30A	0~30A
	Power	0~800W	0~1200W	0~1200W	0~1200W	0~1200W
Load Regulation ±(% of Output+Offset)	Voltage	≤0.01%+8mV			≤0.05%+30mV	
	Current	≤0.1%+10mA			≤0.1%+30mA	
Line Regulation ±(% of Output+Offset)	Voltage	≤0.02%+2mV			≤0.02%+20mV	
	Current	≤0.02%+2mA			≤0.02%+10mA	
Setup Resolution	Voltage	1mV			3mV	
	Current	1mA			1mA	
Readback Resolution	Voltage	1mV			3mV	
	Current	1mA			1mA	
Setup Accuracy (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.02%+30mV			≤0.05%+30mV	
	Current	≤0.1%+0.1%FS			≤0.2%+0.1%FS	
Readback Accuracy (Within 12 months, 25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.02%+30mV			≤0.05%+30mV	
	Current	≤0.2%+0.1%FS			≤0.2%+0.1%FS	
Ripple (20Hz-20MHz)	Voltage	≤30mVp-p			≤60mVp-p	
	Current	≤20mA <sub>rms</sub>			≤40mA <sub>rms</sub>	
Temp. Coefficient	Voltage	≤0.02%+30mV			≤0.02%+30mV	
	Current	≤0.05%+10mA			≤0.05%+10mA	
Readback Temp. Coefficient		≤0.02%+30mV ≤0.05%+5mA			≤0.02%+30mV ≤0.05%+5mA	
Dimension (mm)		415mmW×44mmH×500mmD				
Weight (kg)		8.5kg				

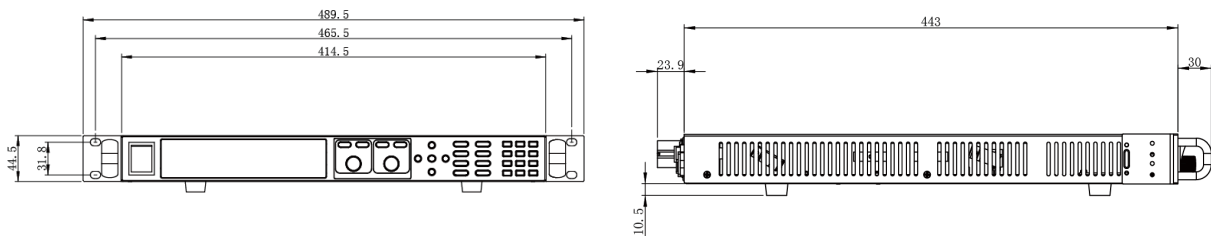
### IT6512 / IT6513 / IT6512A / IT6513A / IT6502D Model

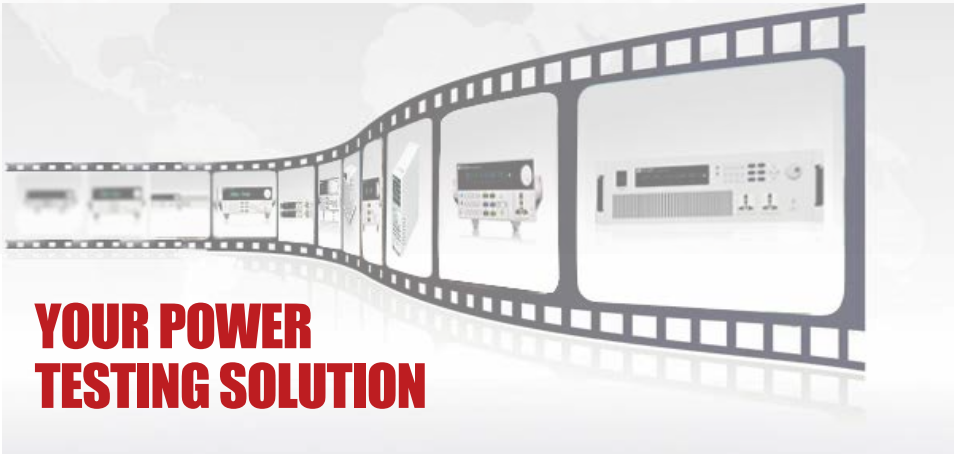
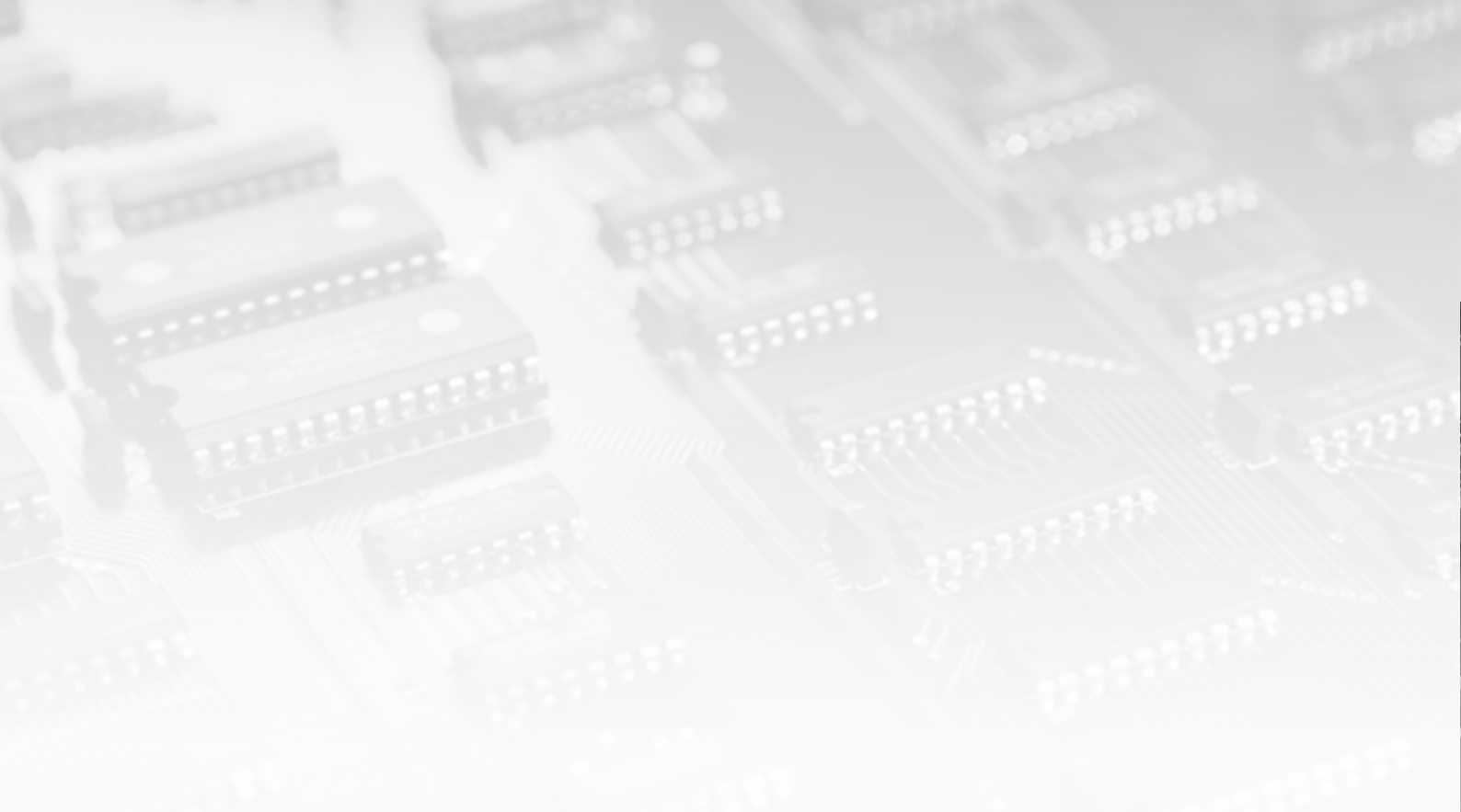


#### Machine size

Width: 414.5mm  
Height: 44.5mm  
Depth: 500mm

#### Detailed Dimension





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

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