

Product

IT6000D High Power Programmable
DC Power Supply



More Flexible
Various Application



IT6000D Series High Power Programmable DC Power Supply

APPLICATIONS

- Civil avionics testing
- High voltage UPS
- On-board charger
- Data Center
- Telecommunication power
- Server power supply
- Solar panel

Your Power Testing Solution



IT6000 Series

High Power Programmable DC Power Supply



IT6000D, single channel output programmable DC power supply, is applicable in laboratories and automatic test system to provide high-power and stable DC supply. The feature of autoranging output enables a wide range of voltage and current combinations at full power, unprecedentedly flexible.

Features

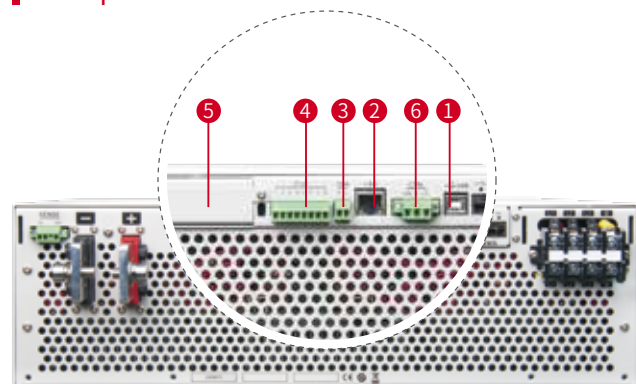
- Master-slave parallel, the power can be paralleled up to 2 MW
- Current is up to 8000A by paralleling
- The adoption of high frequency switching structure supports the automatic switching between CV and CC
- Provides various protections: OVP, OCP, OPP, OTP, protection of power failure and UVP
- Supports data recording function, can continuously record the Max, Min, Average values of output voltage and current, and it can automatically execute data by sequence
- Power efficiency up to 92%
- High power density supported by advanced SiC technology is up to 3U/18kW
- Supports external data recording function, internal buffering, and the PC will periodically read data from the power supply, the shortest interval of sampling is 10μs
- Built-in interfaces of USB/CAN/LAN/Digital IO, and optional interfaces of GPIB, Analog and RS232
- Supports SCPI protocol, built-in Web server

	Model	Current	Power		Model	Current	Power
80V	IT6005D-80-150	150A	5kW	300V	IT6006D-300-75	75A	6kW
	IT6010D-80-300	300A	10kW		IT6012D-300-150	150A	12kW
	IT6015D-80-450	450A	15kW		IT6018D-300-225	225A	18kW

	Model	Current	Power		Model	Current	Power
500V	IT6006D-500-40	40A	6kW	800V	IT6006D-800-25	25A	6kW
	IT6012D-500-80	80A	12kW		IT6012D-800-50	50A	12kW
	IT6018D-500-120	120A	18kW		IT6018D-800-75	75A	18kW

	Model	Current	Power		Model	Current	Power
1500V	IT6018D-1500-40	40A	18kW	2250V	IT6018D-2250-25	25A	18kW

Multiple interfaces



1 Standard USB interface



2 Standard LAN interface



3 Standard CAN interface



4 Standard I/O interface



5 Optional RS232 & Analog or GPIB



6 External control interface

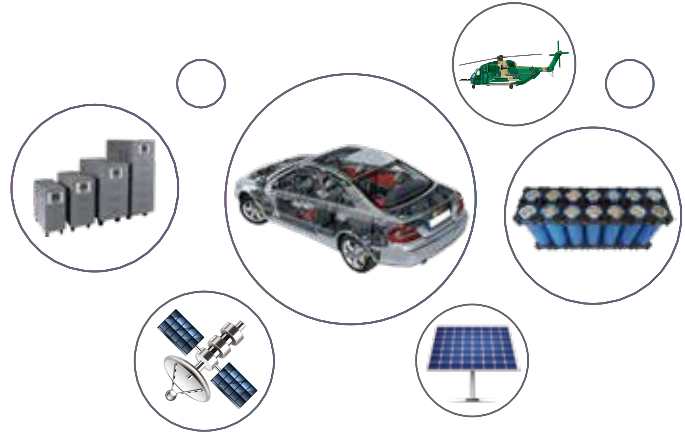


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IT6000D Series High Power Programmable DC Power Supply

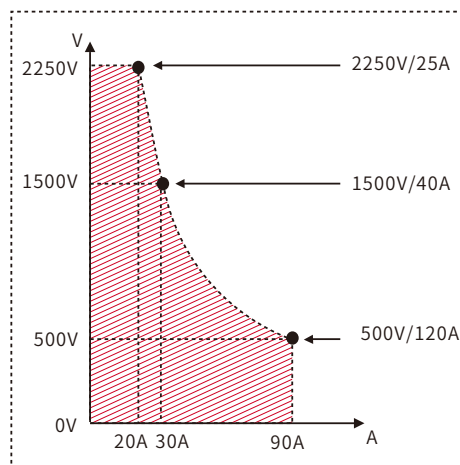
Applications

- Avionics testing
- Data center
- Server power supply
- High voltage UPS
- Telecommunications power
- Solar battery panels
- On-board-charger
- Battery pack
- Energy storage system
- Electrical vehicle charging station
- Fuel battery
- Automatic Test Equipment
- High precision electroplating, Sputtering, surface treatment

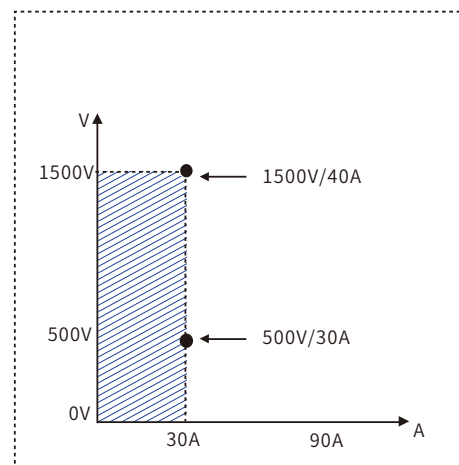


Auto-Range output

Comparing with the conventional design, the IT6000D has much better output range to satisfy various requirement. Featured as its wide auto range output, it can cover more applications. One standalone unit equals to 3-5 traditional power supplies and 3 units equals to 10-13 traditional power supplies. This makes it easier to build a system and save space at the same time.



CP curve of IT6000D



Output feature of conventional power supply

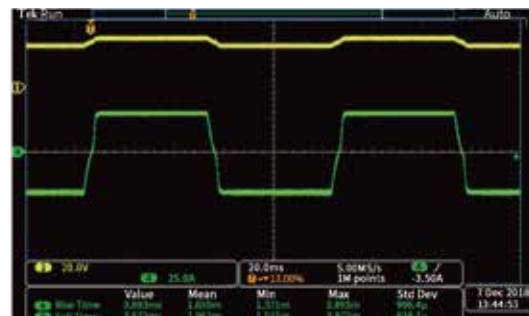
CC & CV priority seletable

Users can choose CC/CV loop response time and loop working mode to decide the output to be voltage high speed mode or current no overshoot mode. This unique function makes it suitable for the application of high power integrated circuit test, charging and discharging test, transient simulation test of automotive electronics etc.



Control loop CV priority mode

After setting the high-speed voltage mode, the voltage output faster and bring with an inrush current which is higher than the current range.



Control loop CC priority mode

battery charging and discharging, high speed seamless switch, effectively suppress the current overshoot.

Your Power Testing Solution

IT6000D Series High Power Programmable DC Power Supply

Based on the industry leading tech of paralleling and advantageous modularity of 18kW in 3U , the IT6000D High Power Systems are available offering up to 180kW 37U high rack cabinet fully configured and ready to use. Output voltage and current ratings range from 0-80V/4,500A to 0-2250V/250A in a 37U cabinet, and can be paralleled for up to 2 megawatts

(MW) of total power output. The paralleled system can be easily adapted to ever changing test requirements. Not only it is possible to reconfigure between parallel operation to expand the system with additional power supply units, but also can be split into smaller units for multiple tasks.

Category	Model	Specification	Description
Optional accessory	IT-E168	Optic cable kits for parallel communication	parallel communication between single units (3U)
	IT-E166	GPIO card	
	IT-E167	RS232&analog card	
	IT-E170	Bus bar kits for 2 sets of 3U units	

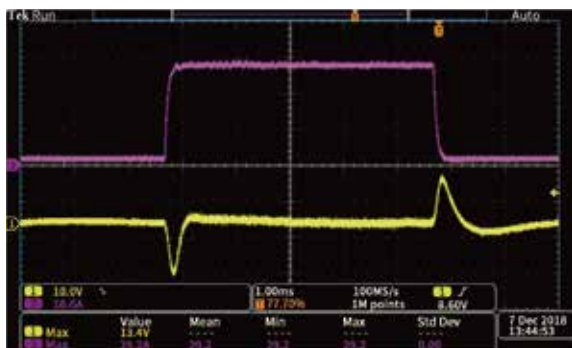
Parallel Kits with ITECH 19" rack & E-stop

Optional Accessories	
Model	Description
IT-E36kWM-15U	Parallel kit for 2 sets of 3U units
IT-E54kWM-15U	Parallel kit for 3 sets of 3U units
IT-E72kWM-27U	Parallel kit for 4 sets of 3U units
IT-E90kWM-27U	Parallel kit for 5 sets of 3U units
IT-E108kWM-27U	Parallel kit for 6 sets of 3U units
IT-E126kWM-27U	Parallel kit for 7 sets of 3U units
IT-E144kWM-37U	Parallel kit for 8 sets of 3U units
IT-E162kWM-37U	Parallel kit for 9 sets of 3U units
IT-E180kWM-37U	Parallel kit for 10 sets of 3U units

Software options for control	
	Specification
IT9000-PV6000	Free control software

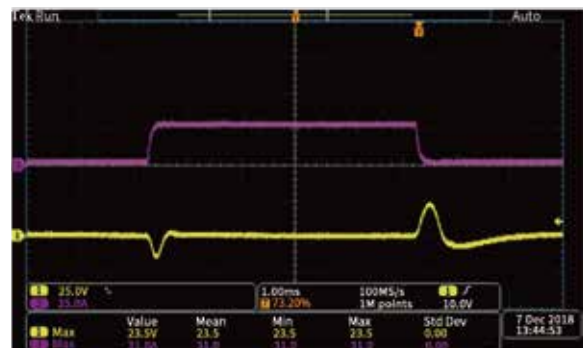


2 units



IT6006D-500-40
Setting: voltage 100V current 56A
Load current: 60A

Standalone unit



IT6006D-500-40 500V/40A/6kW
Setting: voltage 100V current 28A
Load current: 30A

* Yellow waveform: output voltage Violet waveform: output current



From the above waveforms comparison:

we can see the paralleled IT6000D can output the same dynamic response waveform as the original single unit does, and show no-delay fast synchronized response.

Falling speed

No substantial changes comparing with single unit after parallel connection

Rising speed

Even faster rising speed, comparing with single unit after parallel connection

Dynamic response waveform

consistent with single unit waveform after parallel connection

Your Power Testing Solution

IT6000D Series High Power Programmable DC Power Supply

Specification

		IT6005D-80-150	IT6010D-80-300	IT6015D-80-450
Rated Value Range (0℃~50℃)	Output Voltage	0~80V	0~80V	0~80V
	Output Current	0~150A	0~300A	0~450A
	Output Power	0~5000W	0~10000W	0~15000W
Line Regulation ±(% of Offset)	Voltage	≤0.01%FS	≤0.01%FS	≤0.01%FS
	Current	≤0.05%FS	≤0.05%FS	≤0.05%FS
Load Regulation ±(% of Offset)	Voltage	≤0.02%FS	≤0.02%FS	≤0.02%FS
	Current	≤0.05%FS	≤0.05%FS	≤0.05%FS
Programming Resolution	Voltage	0.001V	0.001V	0.001V
	Current	0.01A	0.01A	0.01A
	power	0.001kW	0.001kW	0.001kW
ReadBack Resolution	Voltage	0.001V	0.001V	0.001V
	Current	0.01A	0.01A	0.01A
	power	0.001kW	0.001kW	0.001kW
Programming Accuracy (Within 12 months, 25℃±5℃) ±(% of Output+Offset)	Voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
	Power	≤0.5% + 0.5%FS	≤0.5% + 0.5%FS	≤0.5% + 0.5%FS
ReadBack Accuracy (Within 12 months, 25℃±5℃) ±(% of Output+Offset)	Voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
	Power	≤0.5% + 0.5%FS	≤0.5% + 0.5%FS	≤0.5% + 0.5%FS
Ripple (20Hz ~20MHz)	Voltage	≤120mVpp(MAX: ≤200mVpp)	≤120mVpp(MAX: ≤200mVpp)	≤120mVpp(MAX: ≤200mVpp)
	Current	≤0.1%FS RMS	≤0.1%FS RMS	≤0.1%FS RMS
Rise Time (no load)	Voltage	≤15ms	≤15ms	≤15ms
Rise Time (full load)	Voltage	≤30ms	≤30ms	≤30ms
Fall Time (no load)	Voltage	≤1s	≤1s	≤1s
Fall Time (full load)	Voltage	≤100ms	≤100ms	≤100ms
Dynamic Response Time	Voltage	≤2ms	≤2ms	≤2ms
AC Input	voltage	198V ~ 264V (Decrease 50%) 342V ~ 528V (3P4W)	198V ~ 264V (Decrease 50%) 342V ~ 528V (3P4W)	198V ~ 264V (Decrease 50%) 342V ~ 528V (3P4W)
	Frequency	47Hz ~ 63Hz	47Hz ~ 63Hz	47Hz ~ 63Hz
Setup Stability-30min (% of Output +Offset)	Voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02%+0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
Setup Stability-8h (% of Output +Offset)	Voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02%+0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
Readback Stability-30min (% of Output +Offset)	Voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02%+0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
Readback Stability-8h (% of Output +Offset)	Voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02%+0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
Efficiency		~90%	~90%	~90%
Sense Compensating Voltage		≤5V	≤5V	≤5V
Programming Response Time		2mS	2mS	2mS
Power Factor		0.99	0.99	0.99
Max. Input Current		L1,L2/17A;L3/0A	L1,L2/17A;L3/29A	28.42A
Max. Input Apparent Power		5.6kVA	11.2kVA	16.8kVA
Storage Temperature		-10℃ ~ 70℃	-10℃ ~ 70℃	-10℃ ~ 70℃
Protective Function		OVP/OCPP/OPP/OTP/Vsense reverse protection	OVP/OCPP/OPP/OTP/Vsense reverse protection	OVP/OCPP/OPP/OTP/Vsense reverse protection
Operating Temperature		0 ~ 50℃	0 ~ 50℃	0 ~ 50℃
Dimension(mm)		483W*801.61D*151.3H	483W*801.61D*151.3H	483W*801.61D*151.3H
Net Weight		20KG	30KG	40KG

*This information is subject to change without notice.

Your Power Testing Solution

IT6000D Series High Power Programmable DC Power Supply

Specification

		IT6006D-300-75	IT6012D-300-150	IT6018D-300-225
Rated Value Range (0℃~50℃)	Output Voltage	0~300V	0~300V	0~300V
	Output Current	0~75A	0~150A	0~225A
	Output Power	0~6000W	0~12000W	0~18000W
Line Regulation ±(% of Offset)	Voltage	≤0.01%FS	≤0.01%FS	≤0.01%FS
	Current	≤0.05%FS	≤0.05%FS	≤0.05%FS
Load Regulation ±(% of Offset)	Voltage	≤0.02%S	≤0.02%S	≤0.02%FS
	Current	≤0.05%FS	≤0.05%FS	≤0.05%FS
Programming Resolution	Voltage	0.01V	0.01V	0.01V
	Current	0.01A	0.01A	0.01A
	power	0.001kW	0.001kW	0.001kW
ReadBack Resolution	Voltage	0.01V	0.01V	0.01V
	Current	0.01A	0.01A	0.01A
	power	0.001kW	0.001kW	0.001kW
Programming Accuracy (Within 12 months, 25℃±5℃) ±(% of Output+Offset)	Voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
	Power	≤0.5% + 0.5%FS	≤0.5% + 0.5%FS	≤0.5% + 0.5%FS
ReadBack Accuracy (Within 12 months, 25℃±5℃) ±(% of Output+Offset)	Voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
	Power	≤0.5% + 0.5%FS	≤0.5% + 0.5%FS	≤0.5% + 0.5%FS
Ripple (20Hz ~20MHz)	Voltage	≤120mVpp(MAX: ≤600mVpp)	≤120mVpp(MAX: ≤600mVpp)	≤120mVpp(MAX: ≤300mVpp)
	Current	≤0.1%FS RMS	≤0.1%FS RMS	≤0.1%FS RMS
Rise Time (no load)	Voltage	≤15ms	≤15ms	≤15ms
Rise Time (full load)	Voltage	≤30ms	≤30ms	≤30ms
Fall Time (no load)	Voltage	≤1s	≤1s	≤1s
Fall Time (full load)	Voltage	≤100ms	≤100ms	≤100ms
Dynamic Response Time	Voltage	≤2ms	≤2ms	≤2ms
AC Input	voltage	198V ~ 264V (Decrease 50%) 342V ~ 528V (3P4W)	198V ~ 264V (Decrease 50%) 342V ~ 528V (3P4W)	198V ~ 264V (Decrease 50%) 342V ~ 528V (3P4W)
	Frequency	47Hz ~ 63Hz	47Hz ~ 63Hz	47Hz ~ 63Hz
Setup Stability-30min (% of Output +Offset)	Voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
Setup Stability-8h (% of Output +Offset)	Voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
Readback Stability-30min (% of Output +Offset)	Voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
Readback Stability-8h (% of Output +Offset)	Voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
Efficiency		~92%	~92%	~92%
Sense Compensating Voltage		≤5V	≤5V	≤5V
Programming Response Time		2mS	2mS	2mS
Power Factor		0.99	0.99	0.99
Max. Input Current		L1,L2/20A;L3/0A	L1,L2/20A;L3/34A	33.37A
Max. Input Apparent Power		6.6kVA	12.8kVA	19.8kVA
Storage Temperature		-10℃ ~ 70℃	-10℃ ~ 70℃	-10℃ ~ 70℃
Protective Function		OVP、OCP、OPP、OTP、Vsense反接保护	OVP、OCP、OPP、OTP、Vsense反接保护	OVP、OCP、OPP、OTP、Vsense反接保护
Operating Temperature		0 ~ 50℃	0 ~ 50℃	0 ~ 50℃
Dimension(mm)		483mm(W)*801.61mm(D)*151.3mm(H)	483mm(W)*801.61mm(D)*151.3mm(H)	483mm(W)*801.61mm(D)*151.3mm(H)
Net Weight		20KG	30KG	40KG

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Your Power Testing Solution

IT6000D Series High Power Programmable DC Power Supply

Specification

		IT6006D-500-40	IT6012D-500-80	IT6018D-500-120
Rated Value Range (0℃~50℃)	Output Voltage	0~500V	0~500V	0~500V
	Output Current	0~40A	0~80A	0~120A
	Output Power	0~6000W	0~12000W	0~18000W
Line Regulation ±(% of Offset)	Voltage	≤0.01%FS	≤0.01%FS	≤0.01%FS
	Current	≤0.05%FS	≤0.05%FS	≤0.05%FS
Load Regulation ±(% of Offset)	Voltage	≤0.02%FS	≤0.02%FS	≤0.02%FS
	Current	≤0.05%FS	≤0.05%FS	≤0.05%FS
Programming Resolution	Voltage	0.01V	0.01V	0.01V
	Current	0.001A	0.01A	0.01A
	power	0.001kW	0.001kW	0.001kW
Readback Resolution	Voltage	0.01V	0.01V	0.01V
	Current	0.001A	0.01A	0.01A
	power	0.001kW	0.001kW	0.001kW
Programming Accuracy (Within 12 months, 25℃±5℃) ±(% of Output+Offset)	Voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
	Power	≤0.5% + 0.5%FS	≤0.5% + 0.5%FS	≤0.5% + 0.5%FS
ReadBack Accuracy (Within 12 months, 25℃±5℃) ±(% of Output+Offset)	Voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
	Power	≤0.5% + 0.5%FS	≤0.5% + 0.5%FS	≤0.5% + 0.5%FS
Ripple (20Hz ~20MHz)	Voltage	≤200mVpp(MAX: ≤500mVpp)	≤200mVpp(MAX: ≤500mVpp)	≤200mVpp(MAX: ≤500mVpp)
	Current	≤0.1%FS RMS	≤0.1%FS RMS	≤0.1%FS RMS
Rise Time (no load)	Voltage	≤15ms	≤15ms	≤15ms
Rise Time (full load)	Voltage	≤30ms	≤30ms	≤30ms
Fall Time (no load)	Voltage	≤1s	≤1s	≤1s
Fall Time (full load)	Voltage	≤100ms	≤100ms	≤100ms
Dynamic Response Time	Voltage	≤2ms	≤2ms	≤2ms
AC Input	voltage	198V ~ 264V (Decrease 50%) 342V ~ 528V (3P4W)	198V ~ 264V (Decrease 50%) 342V ~ 528V (3P4W)	198V ~ 264V (Decrease 50%) 342V ~ 528V (3P4W)
	Frequency	47Hz ~ 63Hz	47Hz ~ 63Hz	47Hz ~ 63Hz
Setup Stability-30min (% of Output +Offset)	Voltage	≤0.02%+0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
Setup Stability-8h (% of Output +Offset)	Voltage	≤0.02%+0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
Readback Stability-30min (% of Output +Offset)	Voltage	≤0.02%+0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
Readback Stability-8h (% of Output +Offset)	Voltage	≤0.02%+0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
Efficiency		~92%	~92%	~92%
Sense Compensating Voltage		≤5V	≤5V	≤5V
Programming Response Time		2mS	2mS	2mS
Power Factor		0.99	0.99	0.99
Max. Input Current		L1,L2/20A;L3/0A	L1,L2/20A;L3/34A	33.37A
Max. Input Apparent Power		6.6kVA	12.8kVA	19.8kVA
Storage Temperature		-10℃~70℃	-10℃~70℃	-10℃~70℃
Protective Function		OVP/OCPP/OPP/OTP/Vsense reverse protection	OVP/OCPP/OPP/OTP/Vsense reverse protection	OVP/OCPP/OPP/OTP/Vsense reverse protection
Operating Temperature		0~50℃	0~50℃	0~50℃
Dimension(mm)		483W*801.61D*151.3H	483W*801.61D*151.3H	483W*801.61D*151.3H
Net weight		20KG	30KG	40KG

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Your Power Testing Solution

IT6000D Series High Power Programmable DC Power Supply

Specification

		IT6006D-800-25	IT6012D-800-50	IT6018D-800-75
Rated Value Range (0℃~50℃)	Output Voltage	0~800V	0~800V	0~800V
	Output Current	0~25A	0~50A	0~75A
	Output Power	0~6000W	0~12000W	0~18000W
Line Regulation ±(% of Offset)	Voltage	≤0.01%FS	≤0.01%FS	≤0.01%FS
	Current	≤0.05%FS	≤0.05%FS	≤0.05%FS
Load Regulation ±(% of Offset)	Voltage	≤0.02%S	≤0.02%FS	≤0.02%FS
	Current	≤0.05%FS	≤0.05%FS	≤0.05%FS
Programming Resolution	Voltage	0.01V	0.01V	0.01V
	Current	0.001A	0.01A	0.01A
	power	0.001kW	0.001kW	0.001kW
ReadBack Resolution	Voltage	0.01V	0.01V	0.01V
	Current	0.001A	0.01A	0.01A
	power	0.001kW	0.001kW	0.001kW
Programming Accuracy (Within 12 months, 25℃±5℃) ±(% of Output+Offset)	Voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
	Power	≤0.5% + 0.5%FS	≤0.5% + 0.5%FS	≤0.5% + 0.5%FS
ReadBack Accuracy (Within 12 months, 25℃±5℃) ±(% of Output+Offset)	Voltage	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
	Power	≤0.5% + 0.5%FS	≤0.5% + 0.5%FS	≤0.5% + 0.5%FS
Ripple (20Hz ~20MHz)	Voltage	≤800mVpp(MAX: ≤1.2Vpp)	≤800mVpp(MAX: ≤1.2Vpp)	≤320mVpp(MAX: ≤800mVpp)
	Current	≤0.1%FS RMS	≤0.1%FS RMS	≤0.1%FS RMS
Rise Time (no load)	Voltage	≤15ms	≤15ms	≤15ms
Rise Time (full load)	Voltage	≤30ms	≤30ms	≤30ms
Fall Time (no load)	Voltage	≤1s	≤1s	≤1s
Fall Time (full load)	Voltage	≤100ms	≤100ms	≤100ms
Dynamic Response Time	Voltage	≤2ms	≤2ms	≤2ms
AC Input	voltage	198V ~ 264V (Decrease 50%) 342V ~ 528V (3P4W)	198V ~ 264V (Decrease 50%) 342V ~ 528V (3P4W)	198V ~ 264V (Decrease 50%) 342V ~ 528V (3P4W)
	Frequency	47Hz ~ 63Hz	47Hz ~ 63Hz	47Hz ~ 63Hz
Setup Stability-30min (% of Output +Offset)	Voltage	≤0.02%+0.02%FS	≤0.02%+0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
Setup Stability-8h (% of Output +Offset)	Voltage	≤0.02%+0.02%FS	≤0.02%+0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
Readback Stability-30min (% of Output +Offset)	Voltage	≤0.02%+0.02%FS	≤0.02%+0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
Readback Stability-8h (% of Output +Offset)	Voltage	≤0.02%+0.02%FS	≤0.02%+0.02%FS	≤0.02% + 0.02%FS
	Current	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS	≤0.1% + 0.1%FS
Efficiency		~92%	~92%	~92%
Sense Compensating Voltage		≤8V	≤8V	≤8V
Programming Response Time		2mS	2mS	2mS
Power Factor		0.99	0.99	0.99
Max. Input Current		L1,L2/20A;L3/0A	L1,L2/20A;L3/34A	33.37A
Max. Input Apparent Power		6.6kVA	13.2kVA	19.8kVA
Storage Temperature		-10℃ ~ 70℃	-10℃ ~ 70℃	-10℃ ~ 70℃
Protective Function		OVP/OCPP/OPP/OTP/Vsense reverse protection	OVP/OCPP/OPP/OTP/Vsense reverse protection	OVP/OCPP/OPP/OTP/Vsense reverse protection
Operating Temperature		0 ~ 50℃	0 ~ 50℃	0 ~ 50℃
Dimension(mm)		483W*801.61D*151.3H	483W*801.61D*151.3H	483W*801.61D*151.3H
Net Weight		20KG	30KG	40KG

*This information is subject to change without notice.

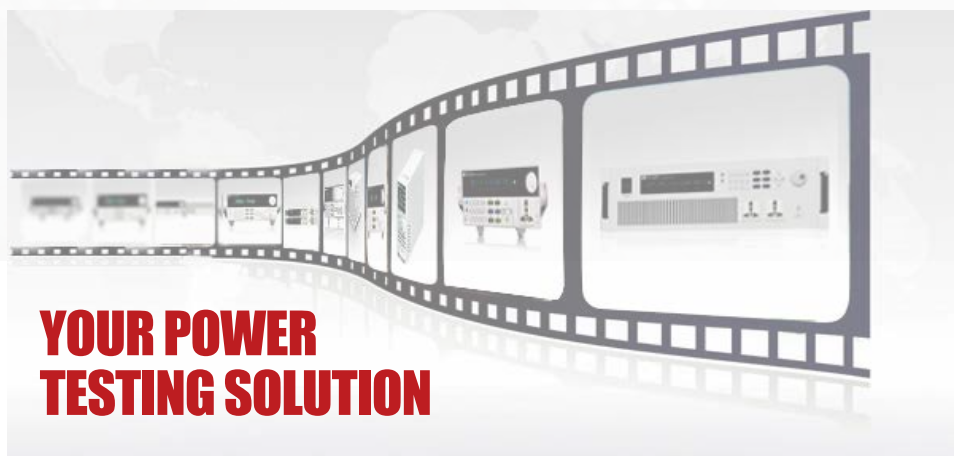
Your Power Testing Solution

IT6000D Series High Power Programmable DC Power Supply

Specification

IT6018D-1500-40		IT6018D-2250-25
Rated Value Range (0 °C~50 °C)	Output Voltage	0 ~ 1500V
	Output Current	0 ~ 40A
	Output Power	0 ~ 18000W
Line Regulation ±(% of Offset)	Voltage	≤ 0.01%FS
	Current	≤ 0.05%FS
Load Regulation ±(% of Offset)	Voltage	≤ 0.02%FS
	Current	≤ 0.05%FS
Programming Resolution	Voltage	0.1V
	Current	0.001A
	power	0.001kW
ReadBack Resolution	Voltage	0.1V
	Current	0.001A
	power	0.001kW
Programming Accuracy (Within 12 months, 25 °C ± 5 °C) ±(% of Output+Offset)	Voltage	≤ 0.02% + 0.02%FS
	Current	≤ 0.1% + 0.1%FS
	Power	≤ 0.5% + 0.5%FS
ReadBack Accuracy (Within 12 months, 25 °C ± 5 °C) ±(% of Output+Offset)	Voltage	≤ 0.02% + 0.02%FS
	Current	≤ 0.1% + 0.1%FS
	Power	≤ 0.5% + 0.5%FS
Ripple (20Hz ~20MHz)	Voltage	≤ 600mVpp(MAX: ≤ 1500mVpp)
	Current	≤ 0.1%FS RMS
Rise Time (no load)	Voltage	≤ 15ms
Rise Time (full load)	Voltage	≤ 30ms
Fall Time (no load)	Voltage	≤ 1s
Fall Time (full load)	Voltage	≤ 100ms
Dynamic Response Time	Voltage	≤ 2ms
	voltage	198V ~ 264V (Decrease 50%) 342V ~ 528V (3P4W)
AC Input	Frequency	47Hz ~ 63Hz
Setup Stability-30min (% of Output +Offset)	Voltage	≤ 0.02% + 0.02%FS
	Current	≤ 0.1% + 0.1%FS
Setup Stability-8h (% of Output +Offset)	Voltage	≤ 0.02% + 0.02%FS
	Current	≤ 0.1% + 0.1%FS
Readback Stability-30min (% of Output +Offset)	Voltage	≤ 0.02% + 0.02%FS
	Current	≤ 0.1% + 0.1%FS
Readback Stability-8h (% of Output +Offset)	Voltage	≤ 0.02% + 0.02%FS
	Current	≤ 0.1% + 0.1%FS
Efficiency		~ 92%
Sense Compensating Voltage		≤ 15V
Programming Response Time		2mS
Power Factor		0.99
Max. Input Current		33.37A
Max. Input Apparent Power		19.8kVA
Storage Temperature		-10 °C ~ 70 °C
Protective Function		OVP/OCPP/OPP/OTP/Vsense reverse protection
Operating Temperature		0 ~ 50 °C
Dimension(mm)		483W*801.61D*151.3H
Net Weight		40KG

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

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