

IT6500-wide-range programmable DC power supply

IT6500 series power supply is single output high-powered and programmable DC power supply which support CC mode and CV mode. The 1200W model has 1U ultrathin body with 1mV, 1mA resolution; the 3000W model outputs adjustable voltage/current value within 80V/120A. In the meanwhile, some models equipped with DIN40839 and ISO-16750-2 standard waveforms.

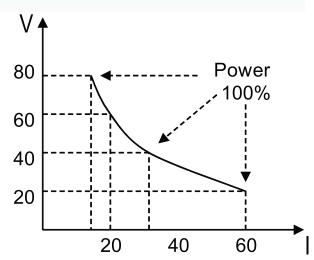


Feature

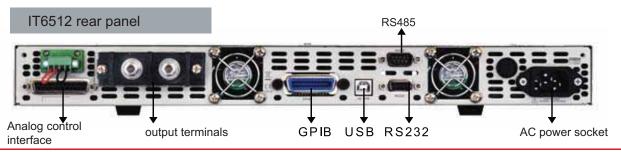
- VFD display
- Achieve Max. voltage/current within rated power
- High resolution with 1mV, 1mA
- Low noise and ripple, comparable with linear power supply
- Some models equipped with DIN40839 and ISO-16750-2 standard waveforms
- Compact size, 1200W has 1U size
- Built-in USB/RS232/RS485/GPIB communication interface
- Support parallel/series connection to extend current/voltage/power
- With standard SCPI communication protocol Analog control interface
- Remote sensing function
- Intelligent cooling fans to save energy and reduce noise

Mode	Voltage Current		Power			
IT6502D	80V	60A	800W			
IT6512	80V	60A	1200W			
IT6512A	80V	60A	1200W			
IT6513	150V	30A	1200W			
IT6513A	150V	30A	1200W			
IT6512D	80V	120A	1600W			
IT6522A	80V	120A	3000W			
IT6523D	160V	120A	3000W			
IT6533A	160V	120A	6000W			
IT6532A	80V	240A	6000W			
*IT6500A series (Diseries) doesn't include DIN waveform or List mode						

[&]quot;TI 6500A series (D series) doesn't include DIN wavelorm of List mode

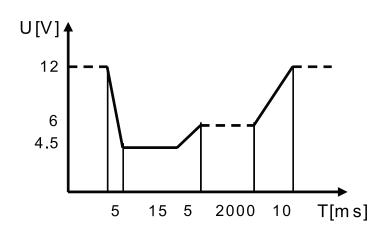


IT6500 series power supply has applied Auto-range technology. Means it can output the Max. voltage or current with a fixed power. For example, IT6512 can be used as 80V/15A or 20V/60A units. Save customer's cost.

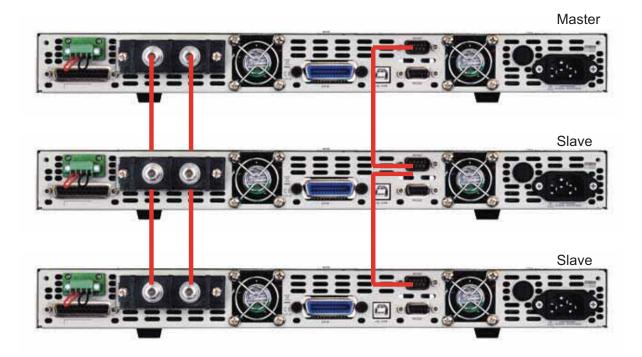


Integrated voltage sequence according to DIN 40839

Some models of IT6500 series integrate voltage (12V/24V) sequence according to DIN40839 to recall easily. It can simulate the start waveform of engine. Under List mode, user could customize the output voltage sequence base on testing demands, such as, rising/falling slop. This is a high-performance source that can be used in many fields.



Support Master-Slave connection mode



Above is a schematic illustration of Master-Slave connection for IT6512. When connect several units in parallel or series, user could specify one unit as a Master and the others as slaves. All setting operations can be directly finished through Master when communicated with PC via GPIB/USB/RS232 interfaces. And slaves only display SLAVE.



IT6500 Specifications

Parameters		IT6502D	IT6512	IT6512A	IT6513	IT6513A	
Input rating volt curr	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	
	voltage	≤0.01%+8mV ≤0.05%+30mV					
	current		≤0.1%+10mA			≤0.1%+30mA	
Line Regulation	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	voltage	≤0.02%+30mV				≤0.05%+30mV	
	current	≤0.1%+0.1%FS			4	≤0.2%+0.1%FS	
Readback Accuracy	voltage	≤0.02%+30mV				≤0.05%+30mV	
	current	≤0.1%+0.1%FS				≤0.2%+0.1%FS	
Ripple	Vpp	≤30mVp-p				≤60mVp-p	
	Irms	≤20mArms				≤40mArms	
Temp.coefficient	voltage	≤0.02%+30mV				<0.02%+30mV	
	current	≤0.05%+10mA				≤0.05%+10mA	
dimension	W*H*D	415mmW*44mmH*500mmD				415mmW*44mmH*500mmD	
weight	Kg		8.5Kg		11011111	8.5Kg	
Parameters		IT6512D	IT6522A	IT6523D	IT6533A	IT6532A	
Input rating	voltage	0~80V	0~80V	0~160V	0~160V	0~80V	
	current	0~120A	0~120A	0~120A	0~120A	0~240A	
	power	0~1600W	0~3000W	0~3000W	0~6000W	0~6000W	
Load Regulation	voltage	≤0.05%+30mV		≤0.05%+40mV		≤0.05%+40mV	
	current	≤0.1%	+30mA	≤0.1%+ 40mA		≤0.1%+60mA	
Line Regulation	voltage		%+20mV	≤0.02%+20mV		≤0.02%+20mV	
	current	≤0.02%+10mA		≤0.02%+20mA		≤0.02%+30mA	
Setup Resolution	voltage		mV	4mV		2mV	
	current	3mA		3mA		6mA	
Readback Resolution	voltage	2mV		4mV		2mV	
	current	3mA		3mA		6mA	
Setup Accuracy	voltage	≤0.05%+30mV		≤0.05%+ 40mV		≤0.05%+40mV	
	current	≤0.2%+0.1%FS		≤0.2%+0.1%FS		≤0.2%+0.1%FS	
Readback Accuracy	voltage	≤0.05%+30mV		≤0. 05%+ 40mV		≤0.05%+40mV	
	current	≤0.2%+0.1%FS		≤0.2%+0.1%FS		≤0.2%+0.1%FS	
Ripple	Vpp	≤80mVp-p		≤150mVp-p		≤100mVp-p	
	Irms	≤120mArms		≤120mArms		≤240mArms	
Temp.coefficient	voltage	≤0.02%+30mV		≤0.02%+40mV		≤0.02%+40mV	
	current	≤0.05%+10mA		≤0.05%+20mA		≤0.05%+20mA	
dimension	W*H*D	439mmW×90mmH×534mmD		439mmW×180mmH×534mmD		439mmW×180mmH×534mm	

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Built-in multiple communication interfaces

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Compared to other series DC source of ITECH, IT6500 series has built-in RS485 interface. This is very useful when have long-distance (Max. 1000m) and multiple nodes communication demands. The node number is up to 31. In addition, built-in GPIB interface is needed adopted parallel connection; communication speed is up to 20ms. Besides, RS232 and USB common communication interface are also included.

Analog control interface

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IT6500 series provided analog control interface. It supports either 10V/5V voltage or 10K/5K resistor to program settings. Users can use 0~10V or 0~5V analog voltage to control 0~100% voltage and current; analog control interface has been widely used in the application of production.