IT6100B High Accuracy Programmable DC Power Supply



Applications

Aerospace power module testing, circuit board testing, medical equipment testing, electronic rectifier testing, etc.

Feature

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

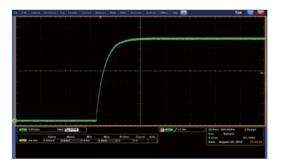
Model	Voltage	Current	Power	Size
IT6121B	20V	5A	100W	1/2 2U
IT6122B	32V	ЗA	96W	1/2 2U
IT6123B	72V	1.2A	86W	1/2 2U
IT6132B	30V	5A	150W	1/2 2U
IT6133B	60V	2.5A	150W	1/2 2U
IT6162B	20V	50A	1000W	2U
IT6164B	30V/60V	40A/20A	1200W	2U

Cal Power

Via Acquanera, 29 tel. 031.526.566 (r.a.) info@calpower.it 22100 COM0 fax 031.507.984 www.calpower.it IT6100B series (86 ~ 1200W) high speed high precision programmable DC power supply is with ultra-fast voltage rising slew rate, resolution up to 0.1mV / 0.01mA, the latest output waveform priority mode allows rising waveform of voltage or current is generated with high-speed and no overshoot, which is widely used in aerospace power modules and other high-precision tests. IT6100B has built-in USB / RS232 / GPIB communication interfaces and the panel supports List programming, which can provide multi-purpose solution according to customer design and testing demands, easy to use.

Ultrafast voltage rise speed

Comparing with general high speed power supplies, IT6100B series power supplies reduce the ripple and noise to the lowest level. The ultrafast voltage rise speed suits for all high speed and precise tests.



Digital voltage milliohmmeter

IT6100B series has built-in precision digital voltage ohmmeter

Digital ohmmeter: Provide four-wire system to measure resistance, within range: $0 \sim 1K\Omega$ Digital voltmeter: Built-in 5½ voltmeter is provided to measure the external voltage within range: $0 \sim 40V$

IT6100B High Accuracy Programmable DC Power Supply

IT6100B Specifications

		IT6121B	IT6122B	IT6123B	IT6132B	IT6133B
	Voltage	0~20V	0~32V	0~72V	0~30V	0~60V
DC output range	Current	0~5A	0~3A	0~1.2A	0~5A	0~2.5A
	Power	100W	96W	86.4W	150W	150W
Line regulation	Voltage	<0.01%+1mV	<0.01%+1mV	<0.01%+1mV	<0.01%+1mV	<0.01%+2mV
Line regulation	Current	<0.05%+1mA	<0.05%+1mA	<0.05%+1mA	<0.05%+1mA	<0.05%+0.05mA
Lood regulation	Voltage	<0.01%+2mV	<0.01%+2mV	<0.01%+2mV	<0.01%+2mV	<0.01%+2mV
Load regulation Current	Current	<0.05%+0.1mA	<0.05%+0.1mA	<0.05%+0.1mA	<0.05%+1.5mA	<0.05%+0.5mA
Ripple and noise Voltage	Voltage	<1mv Vrms/<3mv Vpp	<1mv Vrms/<3mv Vpp	<1mv Vrms/<4mv Vpp	<1mv Vrms/<4mv Vpp	<1mv Vrms/<5mv Vpp
(20HZ-7MHZ)	Current	<3mA rms	<3mA rms	<3mA rms	<4mA rms	<3mA rms
Programming	Voltage	1mV	1mV	1mV	1mV	1mV
resolution	Current	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA
Programming	Voltage	±0.03%+3mV	±0.03%+3mV	±0.03%+6mV	±0.03%+3mV	±0.03%+6mV
accuracy	Current	±0.05%+2mA	±0.05%+2mA	±0.05%+1mA	±0.05%+2.5mA	±0.05%+1.5mA
Display value	Voltage	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV
resolution	Current	0.01mA	0.01mA	0.01mA	0.01mA	0.01mA
Read back	Voltage	±0.02%+3mV	±0.02%+3mV	±0.02%+5mV	±0.02%+3mV	±0.02%+5mV
accuracy	Current	±0.05%+2mA	±0.05%+2mA	±0.05%+1mA	±0.05%+2.5mA	±0.05%+1.5mA
accuracy	Current	10.03 /0+211A			10.03 /0+2.3IIIA	±0.03 /0+1.3IIIA
Load changes		<200us	<200us	sient response (typical) <200us	<200us	<200us
_	1	~200u3	~200us	~20005	~20005	~20005
50% -100% Load back to		<20ms	<20ms	<20ms	<20ms	<20ms
Set the change vo	litage to rise	~20115	~201115	~201115	~201115	~201115
Set the voltage from 0% to 100%, voltage change from 10% to 90%		<200ma	<150mo	<150ma	<250ms	<200ma
Set the change vo	ltage to drop	<200ms	<150ms	<150ms	<250ms	<200ms
Set the voltage from 0% to 100%, voltage change from 10% to 90%						
Overvoltage Ran		1~19V	1~31V	1~71V	1~29V	1~59V
	uracy (typical)			etting value * 0.5% + 0.5V)		
Res	ponse time (typical)		<10			
				/(DC)		
Display value acc	uracy			/(DC) 2%+10mV		
Display resolution	-		±0.0	(-)	N when more than 10V	
	-		±0.0 0.1n	2%+10mV	NV when more than 10V	
Display resolution	ode voltage range	3	±0.0 0.1n 0~4	12%+10mV nV when less than 10V; 1m	N when more than 10V	
Display resolution Enter the differential me	ode voltage range node voltage range	3	±0.0 0.1n 0~4	2%+10mV nV when less than 10V; 1m 0Vpk 0Vpk	N when more than 10V	
Display resolution Enter the differential me Enter the common n	ode voltage range node voltage range	3	±0.0 0.1n 0~4 0~3	2%+10mV nV when less than 10V; 1m 0Vpk 0Vpk %	N when more than 10V	
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Display resolution Enter the differential me Enter the common n Common mode re Weight	Voltage Current Power Voltage Current Voltage Current	IT6162B 0~20V 0~50A 1000W ≤0.02%+2mV ≤0.1%+2mA	±0.0 0.1n 0~4 0~3 <0.1	22%+10mV nV when less than 10V; 1m 0Vpk 0Vpk % 0~30V 0~30V 0~40A 12 ≤0 ≤0	6164B 0~60V 0~20A 000W .02%+2mV .1%+2mA	
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Display resolution Enter the differential me Enter the common n Common mode re Weight DC output range Line regulation Load regulation Ripple and noise	Voltage Current Voltage Current Voltage Current Voltage Current Voltage Current Voltage Current Voltage Current Voltage	IT6162B 0~20V 0~50A 1000W ≤0.02%+2mV ≤0.1%+2mA ≤0.01%+10mV ≤0.1%+10mA ≤ 4mVp-p / 1.2 mV rms	±0.0 0.1n 0~4 0~3 <0.1	2%+10mV nV when less than 10V; 1m 0Vpk 0Vpk % 1Tr 0~30V 0~40A 12 ≤0 ≤0 ≤0 ≤0 ≤0	6164B 0~60V 0~20A 000W 1.02%+2mV 1.1%+2mA 1.01%+10mV 1.1%+10mA 5mVp-p / 1.2 mV rms	
Display resolution Enter the differential me Enter the common n Common mode re Weight DC output range Line regulation Load regulation Ripple and noise (20HZ-207MHZ)	Voltage range ijection ratio	IT6162B 0~20V 0~50A 1000W ≤0.02%+2mV ≤0.1%+2mA ≤0.1%+10mV ≤0.1%+10mA ≤ 4mVp-p / 1.2 mV rms ≤15mArms	±0.0 0.1n 0~4 0~3 <0.1	2%+10mV nV when less than 10V; 1m 0Vpk 0Vpk % 1Tm 0~30V 0~40A 12 ≤0 0~40A 12 ≤0 ≤0 ≤0 ≤0	6164B 0~60V 0~20A 000W .02%+2mV .1%+2mA .01%+10mV .1%+10mV .1%+10mA 5mVp-p / 1.2 mV rms 5mArms	
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*1 Output waveform changes 10% -90% of the time

*2 Load changes 50-100%, the time from output voltage recovers to set value of 75mV *This information is subject to change without notice

83/For more information, please visit ITECH official website www.itechate.com



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