

IT6700H High Voltage Wide Range Programmable DC Power Supply



IT6700H high voltage DC power supply support maximum output power 3000W, voltage up to 1200V. IT6700H series provide list mode, built-in RS232 / USB / GPIB communication interfaces, rich SCPI protocol to facilitate the configuration of a variety of intelligent test platforms.

Applications

Battery fluctuation simulation test, battery charger, high voltage ultra-high speed diode, electrolytic capacitor, electromechanical control field and ATE test system

Feature

- Voltage up to 1200V
- VFD display
- High voltage high current models optional
- Output control via ON/OFF switch
- Safety terminal
- List mode, editable waveforms of voltage and current
- Remote sense
- Built-in RS232/USB/GPIB *1

Model Voltage Current Power Size IT6722 80V 20A 400W 1/2 2U IT6722A 80V 20A 400W 1/2 2U 80V 40A 850W IT6723 1/2 2U 150V 20A 850W 1/2 2U IT6723B IT6723C 32V 110A 850W 1/2 2U 1/2 2U IT6723G 600V 5A 850W IT6723H 300V 10A 850W 1/2 2U 80V 40A 1500W 1/2 2U IT6724 150V 20A 1500W 1/2 2U IT6724B 32V 110A 1500W 1/2 2U IT6724C 600V 5A 1500W 1/2 2U IT6724G 10A 300V 1500W 1/2 2U IT6724H 160V 40A 3kW IT6726B 2U 32V 220A 3kW 2U IT6726C 600V 10A 3kW IT6726G 2U 20A 3kW 300V 2U IT6726H 1200V 5A 3kW IT6726V 211

Battery fluctuation simulation test

Battery charging needs high-precision voltage and stable current output to simulate the battery charge and discharge process. IT6700H series can accurately describes the battery charge and discharge process, which is applied in areas need high voltage and low flow direct current, such as battery fluctuation simulation tests, battery chargers, high voltage ultra-high speed diodes, electrolytic capacitors, electromechanical control, and ATE test systems, etc.

Small size abundant functions, more flexible

IT6700H is with small size, up to 3000W power with only 1/2 2U. It can be placed in the standard cabinet. Even for benchtop usage, it saves much space.

^{*1:}IT6722A is without GPIB interface



Voltage up to 1200V, reasonable design makes high voltage test more secure

IT6700H series supports voltage up to 1200V. High voltage is the basic requirement to the power supply in the fields of LED, battery, DC / DC converters and other industries. Except for mentioned industries above, IT6700H high voltage DC power supply series can also meet ultra-high voltage requirements of the special tests. Engineers always have concerns on the safety of high voltage testing. ITECH is with the design of security terminals and other details to ensure the safety of the test.

Ultra wide range design

The maximum power is not the maximum voltage multiplied by the maximum current. Take one of the models as an example, IT6726H maximum power is 3000W, the maximum voltage and current reach 300V and 20A, a model can replace 2 units or more general power supplies.

IT6700H Specifications

				110723	1107230		110723G
Rated output (0~40 °C)	Voltage	0~80V	0~80V	0~80V	0~150V	0~32V	0~600V
	Current	0~20A	0~20A	0~40A	0~20A	0~110A	0~5A
	Power	400W	400W	850W	850W	850W	850W
Load regulation	Voltage	≤0.01%+10mV	≤0.01%+10mV	≤0.01%+10mV	≤0.01%+40mV	≤0.01%+5mV	≤0.01%+100mV
	Current	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+10mA	≤0.1%+10mA	≤0.1%+10mA	≤0.1%+10mA
Line regulation	Voltage	≤0.01%+2.5mV	≤0.01%+2.5mV	≤0.01%+10mV	≤0.01%+30mV	≤0.01%+5mV	≤0.01%+50mV
	-	≤0.1%+2.5mA	≤0.1%+2.5mA	≤0.1%+10mA	≤0.1%+10mA	≤0.1%+10mA	≤0.1%+10mA
Programming resolution	Voltage		10mV	10mV	100mV	10mV	100mV
	Current		10mA	10mA	10mA	10mA	10mA
Readback resolution	Voltage		10mV	10mV	100mV	10mV	100mV
	_	10mA	10mA	10mA	10mA	10mA	10mA
Programming accuracy		≤0.01%+20mV	≤0.01%+20mV	≤0.03%+20mV	≤0.03%+100mV	≤0.03%+10mV	≤0.03%+200mV
		≤0.1%+10mA	≤0.1%+10mA	≤0.1%+40mA	≤0.1%+20mA	≤0.1%+60mA	≤0.1%+20mA
Readback		≤0.01%+10IIIA ≤0.01%+20mV	≤0.01%+10HA ≤0.01%+20mV	≤0.03%+20mV	≤0.03%+200mV	≤0.1%+00mA ≤0.03%+20mV	≤0.03%+200mV
accuracy	_	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+40mA	≤0.1%+20mA	≤0.1%+60mA	≤0.1%+20mA
Ripple		≤50mVp-p	≤50mVp-p	≤100mVp-p	≤150mVp-p	≤100mVp-p	≤300mVp-p
		≤15mArms	≤15mArms	≤50mArms	≤30mArms	≤150mArms	≤30mArms
		≤300ms	≤300ms	≤300ms	≤300ms	≤300ms	≤300ms
Rise Time							
	Full load		≤1s	≤500ms	≤1s	≤500ms	≤1s
Fall time		≤500ms	≤500ms	≤5s	≤5s	≤5s	≤5s
		≤300ms	≤300ms	≤150ms	≤200ms	≤150ms	≤200ms
Size (mm)		214.5W×88.2H×354.6D	214.5W×88.2H×354.6D	214.5W×88.2H×445D	214.5W×88.2H×445D	214.5W×88.2H×445D	214.5W×88.2H×445D
Weight		2.5KG	2.5KG	6Kg	6Kg	6Kg	6Kg
Weight		2.5KG IT6723H	2.5KG IT6724	6Kg IT6724B	6Kg IT6724C	6Kg IT6724G	6Kg IT6724H
	Voltage						
Rated output		IT6723H	IT6724	IT6724B	IT6724C	IT6724G	IT6724H
Rated output	Current	IT6723H 0~300V	IT6724 0~80V	IT6724B 0~150V	IT6724C 0~32V	IT6724G 0~600V	IT6724H 0~300V
Rated output	Current Power	IT6723H 0~300V 0~10A	IT6724 0~80V 0~40A	IT6724B 0~150V 0~20A	IT6724C 0~32V 0~110A	IT6724G 0~600V 0~5A	IT6724H 0~300V 0~10A
Rated output	Current Power Voltage	IT6723H 0~300V 0~10A 850W	1T6724 0~80V 0~40A 1500W	1T6724B 0~150V 0~20A 1500W	1T6724C 0~32V 0~110A 1500W	IT6724G 0~600V 0~5A 1500W	IT6724H 0~300V 0~10A 1500W
Rated output 0~40 °C)	Current Power Voltage Current	IT6723H 0~300V 0~10A 850W ≤0.01%+100mV	1T6724 0~80V 0~40A 1500W ≤0.01%+10mV	IT6724B 0~150V 0~20A 1500W ≤0.01%+40mV	1T6724C 0~32V 0~110A 1500W ≤0.01%+5mV	IT6724G 0~600V 0~5A 1500W ≤0.01%+100mV	IT6724H 0~300V 0~10A 1500W ≤0.01%+100mV
Rated output 0~40 °C)	Current Power Voltage Current Voltage	IT6723H 0~300V 0~10A 850W ≤0.01%+100mV ≤0.1%+10mA	1T6724 0~80V 0~40A 1500W ≤0.01%+10mV ≤0.1%+10mA	IT6724B 0~150V 0~20A 1500W ≤0.01%+40mV ≤0.1%+10mA	1T6724C 0~32V 0~110A 1500W ≤0.01%+5mV ≤0.1%+10mA	IT6724G 0~600V 0~5A 1500W ≤0.01%+100mV ≤0.1%+10mA	IT6724H 0~300V 0~10A 1500W ≤0.01%+100mV ≤0.1%+10mA
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Rated output 0~40 °C) Load regulation Programming esolution Programming esolution Programming eccuracy Readback eccuracy Readback eccuracy Ripple Rise Time	Current Power Voltage Current No load Full load	IT6723H 0~300V 0~10A 850W ≤0.01%+100mV ≤0.1%+10mA ≤0.01%+50mV ≤0.1%+10mA 100mV 10mA 100mV 10mA ≤0.03%+200mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+30mA	IT6724 0~80V 0~40A 1500W ≤0.01%+10mV ≤0.1%+10mA ≤0.01%+10mA 10mV 10mA 10mV 10mA ≤0.03%+20mV ≤0.1%+40mA ≤0.03%+20mV ≤0.1%+40mA ≤100mVp-p ≤50mArms ≤300ms	IT6724B 0~150V 0~20A 1500W ≤0.01%+40mV ≤0.1%+10mA ≤0.01%+10mA 100mV 10mA 100mV 10mA ≤0.03%+100mV ≤0.1%+20mA ≤0.03%+20mV ≤0.1%+20mA ≤150mVp-p ≤30mArms ≤300ms	IT6724C 0~32V 0~110A 1500W ≤0.01%+5mV ≤0.11%+50mA ≤0.01%+50mA 10mV 10mA 10mV 10mA ≤0.03%+10mV ≤0.1%+60mA ≤0.03%+20mV ≤0.1%+60mA ≤100mVp-p ≤150mArms ≤300ms	IT6724G 0~600V 0~5A 1500W ≤0.01%+100mV ≤0.1%+10mA ≤0.01%+50mV ≤0.1%+10mA 100mV 10mA 100mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤300mVp-p ≤30mArms ≤300ms ≤1s	IT6724H 0~300V 0~10A 1500W ≤0.01%+100mV ≤0.1%+10mA ≤0.01%+50mV 100mV 10mA 100mV 10mA ≤0.03%+200mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤1.03%+200mV ≤0.1%+20mA ≤1.03%+200mV
Rated output 0~40 °C) Load regulation Programming esolution Readback esolution Programming accuracy Readback accuracy Ripple Rise Time	Current Power Voltage Current No load Full load No load	IT6723H 0~300V 0~10A 850W ≤0.01%+100mV ≤0.1%+10mA ≤0.01%+50mV ≤0.1%+10mA 100mV 10mA 100mV 20.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤250mVp-p ≤440mArms ≤300ms ≤1s ≤5s	1T6724 0~80V 0~40A 1500W ≤0.01%+10mV ≤0.1%+10mA ≤0.01%+10mA 10mV 10mA 10mV 10mA ≤0.03%+20mV ≤0.1%+40mA ≤0.03%+20mV ≤0.1%+40mA ≤100mVp-p ≤50mArms ≤300ms ≤500ms	IT6724B 0~150V 0~20A 1500W ≤0.01%+40mV ≤0.1%+10mA ≤0.01%+30mV ≤0.1%+10mA 100mV 10mA 100mV 10mA ≤0.03%+100mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤150mVp-p ≤30mArms ≤300ms ≤1s	IT6724C 0~32V 0~110A 1500W ≤0.01%+5mV ≤0.1%+10mA ≤0.01%+5mA 10mV 10mA 10mV 10mA ≤0.03%+10mV ≤0.1%+60mA ≤0.03%+20mV ≤0.1%+60mA ≤100mVp-p ≤150mArms ≤300ms ≤500ms	IT6724G 0~600V 0~5A 1500W ≤0.01%+100mV ≤0.1%+10mA ≤0.01%+50mV ≤0.1%+10mA 100mV 10mA 100mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤300mVp-p ≤30mArms ≤300ms ≤1s ≤5s	IT6724H 0~300V 0~10A 1500W ≤0.01%+100mV ≤0.1%+50mV ≤0.1%+10mA 100mV 10mA 100mV 10mA ≤0.03%+200mV ≤0.1%+20mA ≤250mVp-p ≤40mArms ≤300ms ≤1s ≤5s
Rated output 0~40 °C) Load regulation Programming esolution Readback resolution Programming accuracy Readback accuracy Ripple Rise Time	Current Power Voltage Current No load Full load No load	IT6723H 0~300V 0~10A 850W ≤0.01%+100mV ≤0.1%+10mA ≤0.01%+50mV ≤0.1%+10mA 100mV 10mA 100mV 10mA ≤0.03%+200mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+30mA	1T6724 0~80V 0~40A 1500W ≤0.01%+10mV ≤0.1%+10mA 10mV 10mA 10mV 10mA ≤0.03%+20mV ≤0.1%+40mA ≤0.03%+20mV ≤0.1%+40mA ≤100mVp-p ≤50mArms ≤300ms ≤500ms	IT6724B 0~150V 0~20A 1500W ≤0.01%+40mV ≤0.1%+10mA ≤0.01%+10mA 100mV 10mA 100mV 10mA ≤0.03%+100mV ≤0.1%+20mA ≤0.03%+20mV ≤0.1%+20mA ≤150mVp-p ≤30mArms ≤300ms	IT6724C 0~32V 0~110A 1500W ≤0.01%+5mV ≤0.11%+50mA ≤0.01%+50mA 10mV 10mA 10mV 10mA ≤0.03%+10mV ≤0.1%+60mA ≤0.03%+20mV ≤0.1%+60mA ≤100mVp-p ≤150mArms ≤300ms	IT6724G 0~600V 0~5A 1500W ≤0.01%+100mV ≤0.1%+10mA ≤0.01%+50mV ≤0.1%+10mA 100mV 10mA 100mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤300mVp-p ≤30mArms ≤300ms ≤1s	IT6724H 0~300V 0~10A 1500W ≤0.01%+100mV ≤0.1%+10mA ≤0.01%+50mV 100mV 10mA 100mV 10mA ≤0.03%+200mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤1.03%+200mV ≤0.1%+20mA ≤1.03%+200mV
Rated output (0~40 °C) Load regulation Line regulation Programming resolution Programming accuracy Readback accuracy Ripple Rise Time	Current Power Voltage Current No load Full load No load	IT6723H 0~300V 0~10A 850W ≤0.01%+100mV ≤0.1%+10mA ≤0.01%+50mV ≤0.1%+10mA 100mV 10mA 100mV 20.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤250mVp-p ≤440mArms ≤300ms ≤1s ≤5s	1T6724 0~80V 0~40A 1500W ≤0.01%+10mV ≤0.1%+10mA ≤0.01%+10mA 10mV 10mA 10mV 10mA ≤0.03%+20mV ≤0.1%+40mA ≤0.03%+20mV ≤0.1%+40mA ≤100mVp-p ≤50mArms ≤300ms ≤500ms	IT6724B 0~150V 0~20A 1500W ≤0.01%+40mV ≤0.1%+10mA ≤0.01%+30mV ≤0.1%+10mA 100mV 10mA 100mV 10mA ≤0.03%+100mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤150mVp-p ≤30mArms ≤300ms ≤1s	IT6724C 0~32V 0~110A 1500W ≤0.01%+5mV ≤0.1%+10mA ≤0.01%+5mA 10mV 10mA 10mV 10mA ≤0.03%+10mV ≤0.1%+60mA ≤0.03%+20mV ≤0.1%+60mA ≤100mVp-p ≤150mArms ≤300ms ≤500ms	IT6724G 0~600V 0~5A 1500W ≤0.01%+100mV ≤0.1%+10mA ≤0.01%+50mV ≤0.1%+10mA 100mV 10mA 100mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤300mVp-p ≤30mArms ≤300ms ≤1s ≤5s	IT6724H 0~300V 0~10A 1500W ≤0.01%+10mA ≤0.01%+50mV ≤0.1%+10mA 100mV 10mA 100mV 10mA ≤0.03%+200mV ≤0.1%+20mA ≤250mVp-p ≤40mArms ≤300ms ≤1s

^{*} AC power input level Working voltage for IT6723/IT6723B/IT6723C/IT6723G/IT6723H is 110V and 220V; Working voltage for IT6722/IT6722A/IT6724B/IT6724C/IT6724H/IT6726B/IT6724V/IT6726B/IT6726V/IT6726B/IT6726C is 220V, so please pay attention to the working input voltage.

^{*} AC power input level: Option Opt.01: 220VAC ± 10%, 47 to 63 Hz Option Opt.02: 110 VAC ± 10%, 47 to 63 Hz

^{*} This information is subject to change without notice

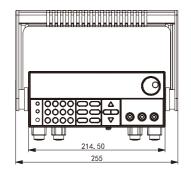
IT6700H High Voltage Wide Range Programmable DC Power Supply

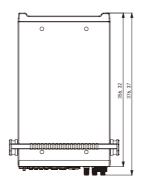


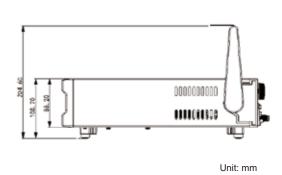
		IT6726B	IT6726G	IT6726H	IT6726V	IT6726C
Rated output (0~40 °C)	Voltage	160V	0~600V	0~300V	0~1200V	0~32V
	Current	40A	0~10A	0~20A	0~5A	0~220A
	Power	3000W	3000W	3000W	3000W	3000W
Load regulation	Voltage	≤0.01%+50mV	≤0.01%+100mV	≤0.02%+200mV	≤0.01%+200mV	≤0.01%+50mV
	Current	≤0.1%+10mA	≤0.1%+10mA	≤0.1%+10mA	≤0.1%+20mA	≤0.1%+30mA
Line regulation	Voltage	≤0.01%+40mV	≤0.01%+50mV	≤0.01%+50mV	≤0.01%+100mV	≤0.01%+50mV
	Current	≤0.1%+10mA	≤0.1%+10mA	≤0.1%+10mA	≤0.1%+20mA	≤0.1%+10mA
Programming resolution	Voltage	100mV	100mV	100mV	100mV	10mV
	Current	10mA	10mA	10mA	10mA	10mA
Readback resolution	Voltage	100mV	100mV	100mV	100mV	10mV
	Current	10mA	10mA	10mA	10mA	10mA
Programming accuracy	Voltage	≤0.03%+200mV	≤0.03%+200mV	≤0.03%+200mV	≤0.04%+400mV	≤0.03%+30mV
	Current	≤0.1%+40mA	≤0.1%+20mA	≤0.1%+30mA	≤0.1%+20mA	≤0.2%+100mA
Readback accuracy	Voltage	≤0.03%+200mV	≤0.03%+200mV	≤0.03%+200mV	≤0.04%+400mV	≤0.03%+30mV
	Current	≤0.1%+40mA	≤0.1%+20mA	≤0.1%+30mA	≤0.1%+20mA	≤0.2%+100mA
Ripple	Voltage	≤250mVp-p	≤200mVp-p	≤300mVp-p	≤600mVp-p	≤200mVp-p
	Current	≤50mArms	≤50mArms	≤50mArms	≤50mArms	≤320mArms
Rise Time	No load	≤500mS	≤500mS	≤500mS	≤500mS	≤500mS
	Full load	≤2S	≤2S	≤2S	≤2S	≤2S
Fall time	No load	≤10S	≤10S	≤10S	≤10S	≤10S
	Full load	≤400mS	≤400mS	≤400mS	≤400mS	≤400mS
Size (mm)			482.5W×88.2H×548.	9D		,
Weight		16Kg	16Kg	16Kg	16Kg	16Kg

^{*}This information is subject to change without notice

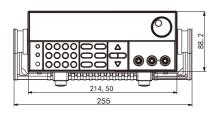
IT6722/IT6722ADimension figure

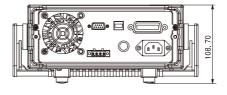


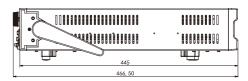




IT6723H/IT6724H/T6723GDimension figure







Unit: mm