

# 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 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 \*1

## **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.

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

# 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.

<sup>\*1:</sup>IT6722 is with GPIB interface.

<sup>\*2:</sup>For any GPIB interface option request, check with ITECH for availability.

IT6723B



# 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.

IT6722

### 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.

IT6723G

IT6723C

#### **IT6700H Specifications**

IT6722A

| Rated output   | Voltage   | 0~80V  | 0~80V  | 0~80V   | 0~150V  | 0~32V   | 0~600V   |
|--|---|--|--|---|---|---|--|
| ( 0~40 °C)   | 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   |
| Load regulation  | Current   | ≤0.1%+5mA  | ≤0.1%+5mA  | ≤0.1%+10mA  | ≤0.1%+10mA  | ≤0.1%+10mA  | ≤0.1%+10mA   |
|  | Voltage   | ≤0.01%+2.5mV   | ≤0.01%+2.5mV   | ≤0.01%+10mV   | ≤0.01%+30mV   | ≤0.01%+5mV  | ≤0.01%+50mV  |
| Line regulation  | Current   | ≤0.1%+2.5mA  | ≤0.1%+2.5mA  | ≤0.1%+10mA  | ≤0.1%+10mA  | ≤0.1%+10mA  | ≤0.1%+10mA   |
|  |   | 10mV   | 10mV   | 10mV  | 100mV   | 10mV  | 100mV  |
| Programming resolution   | -   | 10mA   | 10mA   | 10mA  | 10mA  | 10mA  | 10mA   |
| Readback resolution  | Voltage   |  | 10mV   | 10mV  | 100mV   | 10mV  | 100mV  |
|  | Current   |  | 10mA   | 10mA  | 10mA  | 10mA  | 10mA   |
| Programming  |   | ≤0.01%+20mV  | ≤0.01%+20mV  | ≤0.03%+20mV   | ≤0.03%+100mV  | ≤0.03%+10mV   | ≤0.03%+200mV   |
| accuracy   | -   | ≤0.1%+10mA   |  |   |   |   |  |
| Readback   |   | ≤0.1%+10MA<br>≤0.01%+20mV  | ≤0.1%+10mA<br>≤0.01%+20mV  | ≤0.1%+40mA<br>≤0.03%+20mV   | ≤0.1%+20mA<br>≤0.03%+200mV  | ≤0.1%+60mA<br>≤0.03%+20mV   | ≤0.1%+20mA<br>≤0.03%+200mV   |
| accuracy   |   |  |  | ******  | *******   |   |  |
| accuracy   |   | ≤0.1%+20mA   | ≤0.1%+20mA   | ≤0.1%+40mA  | ≤0.1%+20mA  | ≤0.1%+60mA  | ≤0.1%+20mA   |
| Kippie   | _   | ≤50mVp-p   | ≤50mVp-p   | ≤100mVp-p   | ≤150mVp-p   | ≤100mVp-p   | ≤300mVp-p  |
|  |   | ≤15mArms   | ≤15mArms   | ≤50mArms  | ≤30mArms  | ≤150mArms   | ≤30mArms   |
| Rise Time  | No load   | ≤300ms   | ≤300ms   | ≤300ms  | ≤300ms  | ≤300ms  | ≤300ms   |
|  | Full load   |  | ≤1s  | ≤500ms  | ≤1s   | ≤500ms  | ≤1s  |
| Fall time  | No load   | ≤500ms   | ≤500ms   | ≤5s   | ≤5s   | ≤5s   | ≤5s  |
|  | Full load   | ≤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×445[  |
| Veight   |   | 2.5KG  | 2.5KG  | 6Kg   | 6Kg   | 6Kg   | 6Kg  |
|  |   | IT6723H  | IT6724   | IT0704D   |   |   |  |
|  |   |  |  |   |   |   |  |
|  | Voltage   |  |  | IT6724B   | IT6724C   | 1T6724G   | 1T6724H  |
| Rated output   |   | 0~300V   | 0~80V  | 0~150V  | 0~32V   | 0~600V  | 0~300V   |
|  | Current   | 0~300V<br>0~10A  | 0~80V<br>0~40A   | 0~150V<br>0~20A   | 0~32V<br>0~110A   | 0~600V<br>0~5A  | 0~300V<br>0~10A  |
|  | Current<br>Power  | 0~300V<br>0~10A<br>850W  | 0~80V<br>0~40A<br>1500W  | 0~150V<br>0~20A<br>1500W  | 0~32V<br>0~110A<br>1500W  | 0~600V<br>0~5A<br>1500W   | 0~300V<br>0~10A<br>1500W   |
| (0~40 °C)  | Current<br>Power<br>Voltage   | 0~300V<br>0~10A<br>850W<br>≤0.01%+100mV  | 0~80V<br>0~40A<br>1500W<br>≤0.01%+10mV   | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV   | 0~32V<br>0~110A<br>1500W<br>≤0.01%+5mV  | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV   | 0~300V<br>0~10A<br>1500W<br>≤0.01%+100mV   |
| ( 0~40 °C)   | Current<br>Power<br>Voltage<br>Current  | 0~300V<br>0~10A<br>850W<br>≤0.01%+100mV<br>≤0.1%+10mA  | 0~80V<br>0~40A<br>1500W<br>≤0.01%+10mV<br>≤0.1%+10mA   | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA   | 0~32V<br>0~110A<br>1500W<br>≤0.01%+5mV<br>≤0.1%+10mA  | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA   | 0~300V<br>0~10A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA   |
| ( 0~40 °C)   | Current<br>Power<br>Voltage<br>Current<br>Voltage   | 0~300V<br>0~10A<br>850W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV   | 0~80V<br>0~40A<br>1500W<br>≤0.01%+10mV<br>≤0.1%+10mA<br>≤0.01%+10mV  | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA<br>≤0.01%+30mV  | 0~32V<br>0~110A<br>1500W<br>≤0.01%+5mV<br>≤0.1%+10mA<br>≤0.01%+5mV  | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV  | 0~300V<br>0~10A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV  |
| (0~40°C)  Load regulation  Line regulation   | Current Power Voltage Current Voltage Current   | 0~300V<br>0~10A<br>850W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA   | 0~80V<br>0~40A<br>1500W<br>≤0.01%+10mV<br>≤0.1%+10mA<br>≤0.01%+10mV<br>≤0.1%+10mA  | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA<br>≤0.01%+30mV<br>≤0.1%+10mA  | 0~32V<br>0~110A<br>1500W<br>≤0.01%+5mV<br>≤0.1%+10mA<br>≤0.01%+5mV<br>≤0.1%+50mA  | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA  | 0~300V<br>0~10A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA  |
| Rated output (0~40 °C)  Load regulation  Line regulation  Programming  | Current Power Voltage Current Voltage Current Voltage   | 0~300V<br>0~10A<br>850W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV  | 0~80V<br>0~40A<br>1500W<br>≤0.01%+10mV<br>≤0.1%+10mA<br>≤0.01%+10mV<br>≤0.1%+10mA  | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA<br>≤0.01%+30mV  | 0~32V<br>0~110A<br>1500W<br>≤0.01%+5mV<br>≤0.1%+10mA<br>≤0.01%+5mV<br>≤0.1%+50mA<br>10mV  | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV   | 0~300V<br>0~10A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV  |
| (0~40 °C)  Load regulation  Line regulation  Programming resolution  | Current Power Voltage Current Voltage Current Voltage   | 0~300V<br>0~10A<br>850W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA   | 0~80V<br>0~40A<br>1500W<br>≤0.01%+10mV<br>≤0.1%+10mA<br>≤0.01%+10mV<br>≤0.1%+10mA  | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA<br>≤0.01%+30mV<br>≤0.1%+10mA  | 0~32V<br>0~110A<br>1500W<br>≤0.01%+5mV<br>≤0.1%+10mA<br>≤0.01%+5mV<br>≤0.1%+50mA  | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA  | 0~300V<br>0~10A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA  |
| (0~40 °C)  Load regulation  Line regulation  Programming resolution  Readback  | Current Power Voltage Current Voltage Current Voltage Current Voltage Current Voltage   | 0~300V<br>0~10A<br>850W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA  | 0~80V<br>0~40A<br>1500W<br>≤0.01%+10mV<br>≤0.1%+10mA<br>≤0.01%+10mV<br>≤0.1%+10mA  | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA<br>≤0.01%+30mV<br>≤0.1%+10mA<br>100mV   | 0~32V<br>0~110A<br>1500W<br>≤0.01%+5mV<br>≤0.1%+10mA<br>≤0.01%+5mV<br>≤0.1%+50mA<br>10mV  | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV   | 0~300V<br>0~10A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV   |
| (0~40 °C)  Load regulation  Line regulation  Programming resolution  Readback  | Current Power Voltage Current Voltage Current Voltage Current Voltage Current Voltage   | 0~300V<br>0~10A<br>850W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA  | 0~80V<br>0~40A<br>1500W<br>≤0.01%+10mV<br>≤0.1%+10mA<br>≤0.01%+10mV<br>≤0.1%+10mA<br>10mV  | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA<br>≤0.01%+30mV<br>≤0.1%+10mA<br>100mV   | 0~32V<br>0~110A<br>1500W<br>≤0.01%+5mV<br>≤0.1%+10mA<br>≤0.01%+5mV<br>≤0.1%+50mA<br>10mV<br>10mA  | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA   | 0~300V<br>0~10A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA   |
| (0~40°C)  Load regulation  Line regulation   | Current Power Voltage Current Voltage Current Voltage Current Voltage Current Voltage   | 0~300V<br>0~10A<br>850W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA  | 0~80V<br>0~40A<br>1500W<br>≤0.01%+10mV<br>≤0.1%+10mA<br>≤0.01%+10mV<br>≤0.1%+10mA<br>10mV<br>10mA  | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA<br>≤0.01%+30mV<br>≤0.1%+10mA<br>100mV<br>10mA   | 0~32V<br>0~110A<br>1500W<br>≤0.01%+5mV<br>≤0.1%+10mA<br>≤0.01%+5mV<br>≤0.1%+50mA<br>10mV<br>10mA  | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA   | 0~300V<br>0~10A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV  |
| Locat regulation Line regulation Programming resolution Readback resolution Programming  | Current Power Voltage Current Voltage Current Voltage Current Voltage Current Voltage Current   | 0~300V<br>0~10A<br>850W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+200mV   | 0~80V<br>0~40A<br>1500W<br>≤0.01%+10mV<br>≤0.1%+10mA<br>≤0.01%+10mA<br>10mV<br>10mA<br>10mV<br>10mA<br>≤0.03%+20mV   | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA<br>≤0.01%+30mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV  | 0~32V<br>0~110A<br>1500W<br>≤0.01%+5mV<br>≤0.1%+10mA<br>≤0.01%+5mV<br>≤0.1%+50mA<br>10mV<br>10mA<br>10mV  | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA  | 0~300V<br>0~10A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA  |
| Locat regulation Line regulation Programming resolution Readback resolution Programming Resolution   | Current Power Voltage Current Voltage Current Voltage Current Voltage Current Voltage Current Voltage Current   | 0~300V<br>0~10A<br>850W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+200mV   | 0~80V<br>0~40A<br>1500W<br>≤0.01%+10mV<br>≤0.1%+10mA<br>≤0.01%+10mV<br>≤0.1%+10mA<br>10mV<br>10mA<br>10mV  | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA<br>≤0.01%+30mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+100mV  | 0~32V<br>0~110A<br>1500W<br>≤0.01%+5mV<br>≤0.1%+10mA<br>≤0.01%+5mV<br>≤0.1%+50mA<br>10mV<br>10mA<br>10mV<br>10mA<br>≤0.03%+10mV   | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+200mV  | 0~300V<br>0~10A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+200mV<br>≤0.1%+20mA  |
| o~40 °C)  Load regulation  Line regulation  Programming  esolution  Readback  esolution  Programming  accuracy  Readback   | Current Power Voltage Current Voltage Current Voltage Current Voltage Current Voltage Current Voltage Current   | 0~300V<br>0~10A<br>850W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤0.03%+200mV   | 0~80V<br>0~40A<br>1500W<br>≤0.01%+10mV<br>≤0.1%+10mA<br>≤0.01%+10mA<br>10mV<br>10mA<br>10mV<br>10mA<br>≤0.03%+20mV<br>≤0.1%+40mA   | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA<br>≤0.01%+30mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+100mV<br>≤0.1%+20mA  | 0~32V<br>0~110A<br>1500W<br>≤0.01%+5mV<br>≤0.1%+10mA<br>≤0.01%+5mV<br>≤0.1%+50mA<br>10mV<br>10mA<br>10mV<br>10mA<br>≤0.03%+10mV<br>≤0.1%+60mA                                 | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+200mV<br>≤0.1%+20mA  | 0~300V<br>0~10A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+200mV<br>≤0.1%+20mA  |
| 0~40 °C)  .oad regulation  Programming esolution  Readback esolution  Programming accuracy  Readback accuracy  | Current Power Voltage Current   | 0~300V<br>0~10A<br>850W<br>≤0.01%+10mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤0.03%+200mV   | 0~80V<br>0~40A<br>1500W<br>≤0.01%+10mV<br>≤0.1%+10mA<br>≤0.01%+10mA<br>10mV<br>10mA<br>10mV<br>10mA<br>≤0.03%+20mV<br>≤0.1%+40mA<br>≤0.03%+20mV<br>≤0.1%+40mA              | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA<br>≤0.01%+30mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>≤0.03%+100mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA   | 0~32V<br>0~110A<br>1500W<br>≤0.01%+5mV<br>≤0.1%+10mA<br>≤0.01%+5mV<br>≤0.1%+50mA<br>10mV<br>10mA<br>10mV<br>10mA<br>≤0.03%+10mV<br>≤0.1%+60mA<br>≤0.03%+20mV                  | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤0.03%+200mV  | 0~300V<br>0~10A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+50mV<br>≤0.1%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤0.03%+200mV  |
| 0~40 °C)  .oad regulation  Programming esolution  Readback esolution  Programming inccuracy  Readback inccuracy  | Current Power Voltage Current   | 0~300V<br>0~10A<br>850W<br>≤0.01%+10mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤250mVp-p                                   | 0~80V<br>0~40A<br>1500W<br>≤0.01%+10mV<br>≤0.1%+10mA<br>≤0.01%+10mA<br>10mV<br>10mA<br>10mV<br>10mA<br>≤0.03%+20mV<br>≤0.1%+40mA<br>≤0.03%+20mV<br>≤0.1%+40mA<br>≤100mVp-p | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA<br>≤0.01%+30mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>≤0.03%+100mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤150mVp-p  | 0~32V 0~110A 1500W ≤0.01%+5mV ≤0.1%+10mA ≤0.01%+5mV ≤0.1%+50mA 10mV 10mA ≤0.03%+10mV ≤0.1%+60mA ≤0.03%+20mV ≤0.1%+60mA ≤100mVp-p  | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤300mVp-p   | 0~300V 0~10A 1500W ≤0.01%+100mV ≤0.1%+50mV ≤0.1%+50mV ≤0.1%+10mA 100mV 10mA ≤0.03%+200mV ≤0.1%+20mA ≤0.03%+20mN ≤0.1%+20mA ≤250mVp-p   |
| 0~40 °C)  Load regulation  Line regulation  Programming esolution  Readback esolution  Programming accuracy  Readback accuracy  Ripple   | Current Power Voltage Current Current   | 0~300V<br>0~10A<br>850W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA                 | 0~80V 0~40A 1500W ≤0.01%+10mV ≤0.1%+10mA ≤0.01%+10mA 10mV 10mA 10mV ≤0.3%+20mV ≤0.1%+40mA ≤0.03%+20mV ≤0.1%+40mA ≤100mVp-p ≤50mArms  | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA<br>≤0.01%+30mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>≤0.03%+100mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤150mVp-p<br>≤30mArms                            | 0~32V 0~110A 1500W ≤0.01%+5mV ≤0.1%+10mA ≤0.01%+5mV ≤0.1%+50mA 10mV 10mA 10mV 10mA ≤0.03%+10mV ≤0.1%+60mA ≤0.03%+20mV ≤0.1%+60mA ≤100mVp-p ≤150mArms                          | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤300mVp-p<br>≤30mArms  | 0~300V 0~10A 1500W ≤0.01%+100mV ≤0.1%+50mV ≤0.1%+50mV 100mV 100mA 100mV 10mA ≤0.03%+200mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤250mVp-p ≤40mArms  |
| o~40 °C)  Load regulation  Line regulation  Programming resolution  Readback resolution  Programming resolution  Readback resolution  Readback resolution  Readback Readback Ripple  | Current Power Voltage Current   | 0~300V<br>0~10A<br>850W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤0.03%+300mV | 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                           | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA<br>≤0.01%+30mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>≤0.03%+100mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤150mVp-p<br>≤30mArms<br>≤300ms                  | 0~32V 0~110A 1500W ≤0.01%+5mV ≤0.1%+10mA ≤0.01%+5mV ≤0.1%+50mA 10mV 10mA 10mV ≤0.03%+10mV ≤0.1%+60mA ≤0.03%+20mV ≤0.1%+60mA ≤100mVp-p ≤150mArms ≤300ms                        | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤300mVp-p<br>≤30mArms<br>≤300ms  | 0~300V 0~10A 1500W ≤0.01%+100mV ≤0.1%+50mV ≤0.1%+50mV 100mV 100mA 100mV 10mA ≤0.03%+200mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤250mVp-p ≤40mArms ≤300ms                                       |
| Locat regulation Line regulation Programming resolution Readback resolution Programming Readback Resolution Readback Resolution Readback Resolution Readback Resolution Readback Resolution  | Current Power Voltage Current No load Full load | 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%+300mV ≤0.1%+30mA ≤100mV  | 0~80V 0~40A 1500W ≤0.01%+10mV ≤0.1%+10mA ≤0.01%+10mA 10mV 10mA 10mV 10mA ≤0.03%+20mV ≤0.1%+40mA ≤100mVp-p ≤50mArms ≤300ms  | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA<br>≤0.01%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+100mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤150mVp-p<br>≤30mArms<br>≤300ms               | 0~32V 0~110A 1500W ≤0.01%+5mV ≤0.1%+10mA ≤0.01%+5mV ≤0.1%+50mA 10mV 10mA 10mV ≤0.03%+10mV ≤0.1%+60mA ≤0.03%+20mV ≤0.1%+60mA ≤100mVp-p ≤150mArms ≤300ms                        | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤300mVp-p<br>≤30mArms<br>≤300mS<br>≤1s                  | 0~300V 0~10A 1500W ≤0.01%+100mV ≤0.1%+50mV ≤0.1%+50mV ≤0.1%+10mA 100mV 10mA ≤0.03%+200mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤3.03%+200mV ≤0.1%+20mA ≤3.03%+200mV     |
| Locat regulation Line regulation Programming resolution Readback resolution Programming recording recordin | Current Power Voltage Current No load Full load No load   | 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 ≤1.1%+20mA ≤50.03%+200mV ≤5.1%+25mA ≤55s                                   | 0~80V 0~40A 1500W ≤0.01%+10mV ≤0.1%+10mA ≤0.01%+10mA 10mV 10mA 10mV 10mA ≤0.03%+20mV ≤0.1%+40mA ≤100mVp-p ≤50mArms ≤300ms ≤500ms   | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA<br>≤0.01%+30mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+100mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤150mVp-p<br>≤30mArms<br>≤300ms | 0~32V 0~110A 1500W ≤0.01%+5mV ≤0.1%+10mA ≤0.01%+5mV ≤0.1%+50mA 10mV 10mA 10mV 10mA ≤0.03%+10mV ≤0.1%+60mA ≤0.03%+20mV ≤0.1%+60mA ≤100mVp-p ≤150mArms ≤300ms ≤500ms            | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤300mVp-p<br>≤30mArms<br>≤300ms<br>≤1s                  | 0~300V 0~10A 1500W ≤0.01%+100mV ≤0.1%+50mV ≤0.1%+50mV ≤0.1%+10mA 100mV 10mA ≤0.03%+200mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤3.03%+200mV ≤0.1%+20mA ≤50mVp-p ≤40mArms ≤300ms ≤1s             |
| Load regulation Line regulation Programming resolution Readback resolution Programming accuracy Readback accuracy Ripple Rise Time Fall time   | Current Power Voltage Current No load Full load No load   | 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 ≤250mVp-p ≤40mArms ≤300ms ≤1s ≤5s ≤150ms  | 0~80V 0~40A 1500W ≤0.01%+10mV ≤0.1%+10mA ≤0.01%+10mA 10mV 10mA 10mV 10mA ≤0.03%+20mV ≤0.1%+40mA ≤100mVp-p ≤50mArms ≤300ms ≤500ms   | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA<br>≤0.01%+30mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+100mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤150mVp-p<br>≤30mArms<br>≤300ms | 0~32V 0~110A 1500W ≤0.01%+5mV ≤0.1%+10mA ≤0.01%+5mV ≤0.1%+50mA 10mV 10mA 10mV 10mA ≤0.03%+10mV ≤0.1%+60mA ≤0.03%+20mV ≤0.1%+60mA ≤100mVp-p ≤150mArms ≤300ms ≤500ms ≤5s ≤150ms | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤300mVp-p<br>≤30mArms<br>≤300mS<br>≤1s<br>≤5s<br>≤200ms | 0~300V 0~10A 1500W ≤0.01%+100mV ≤0.1%+50mV ≤0.1%+50mV ≤0.1%+10mA 100mV 10mA ≤0.03%+200mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤1.03%+200mV ≤1.1%+20mA ≤250mVp-p ≤40mArms ≤300ms ≤1s ≤55 ≤150ms |
| Line regulation  Line regulation  Programming resolution  Readback resolution  Programming accuracy  Readback accuracy  Ripple  Rise Time  | Current Power Voltage Current No load Full load No load   | 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 ≤1.1%+20mA ≤50.03%+200mV ≤5.1%+25mA ≤55s                                   | 0~80V 0~40A 1500W ≤0.01%+10mV ≤0.1%+10mA ≤0.01%+10mA 10mV 10mA 10mV 10mA ≤0.03%+20mV ≤0.1%+40mA ≤100mVp-p ≤50mArms ≤300ms ≤500ms   | 0~150V<br>0~20A<br>1500W<br>≤0.01%+40mV<br>≤0.1%+10mA<br>≤0.01%+30mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+100mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤150mVp-p<br>≤30mArms<br>≤300ms | 0~32V 0~110A 1500W ≤0.01%+5mV ≤0.1%+10mA ≤0.01%+5mV ≤0.1%+50mA 10mV 10mA 10mV 10mA ≤0.03%+10mV ≤0.1%+60mA ≤0.03%+20mV ≤0.1%+60mA ≤100mVp-p ≤150mArms ≤300ms ≤500ms            | 0~600V<br>0~5A<br>1500W<br>≤0.01%+100mV<br>≤0.1%+10mA<br>≤0.01%+50mV<br>≤0.1%+10mA<br>100mV<br>10mA<br>100mV<br>10mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤0.03%+200mV<br>≤0.1%+20mA<br>≤300mVp-p<br>≤30mArms<br>≤300ms<br>≤1s                  | 0~300V 0~10A 1500W ≤0.01%+100mV ≤0.1%+50mV ≤0.1%+50mV ≤0.1%+10mA 100mV 10mA ≤0.03%+200mV ≤0.1%+20mA ≤0.03%+200mV ≤0.1%+20mA ≤3.03%+200mV ≤0.1%+20mA ≤250mVp-p ≤40mArms ≤300ms ≤1s ≤5s        |

IT6723

<sup>\*</sup> AC power input level Working voltage for IT6723/IT6723B/IT6723C/IT6723G/IT6723H is 110V and 220V; Working voltage for IT6722/IT6722A/IT6724B/IT6724B/IT6724C/IT6724H/IT6726H/IT6724G/IT6724V/IT6726B/IT6726B/IT6726C is 220V, so please pay attention to the working input voltage.

<sup>\*</sup> AC power input level: Option Opt.01: 220VAC  $\pm$  10%, 47 to 63 Hz Option Opt.02: 110 VAC  $\pm$  10%, 47 to 63 Hz

<sup>\*</sup> This information is subject to change without notice

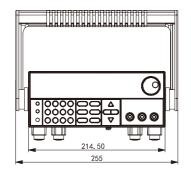
## IT6700H High Voltage Wide Range Programmable DC Power Supply

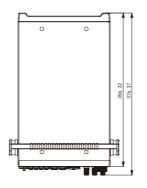


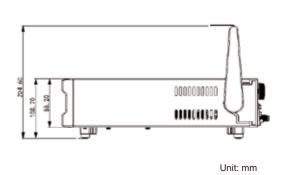
|                         |           | IT6726B      | IT6726G           | IT6726H      | IT6726V      | IT6726C     |
|-------------------------|-----------|--------------|-------------------|--------------|--------------|-------------|
| Rated output ( 0~40 °C) | Voltage   | 160V         | 0~600V            | 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        |

<sup>\*</sup>This information is subject to change without notice

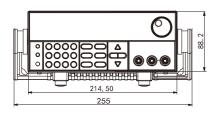
#### IT6722/IT6722ADimension figure

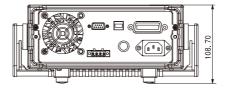


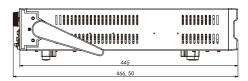




#### IT6723H/IT6724H/T6723GDimension figure







Unit: mm