

Product

IT8600 AC / DC ELECTRONIC LOAD

Features

THD up to 50th

Oscilloscope Function

Parallel/3-Phase Control

Adjustable CF/PF

Multiple Parameters Simultaneously Displayed



IT8600

AC / DC ELECTRONIC LOAD

Your Power Testing Solution



IT8600 AC/DC ELECTRONIC LOAD

IT8600 series AC/DC electronic load has power range 0~14.4 kVA, power can extend up to 43.2KVA by paralleling, and adjustable frequency is 45 Hz ~ 450 Hz. The unique oscilloscope waveform display function of IT8600's can display input voltage & current as waveform. It is equipped with measurement modes for different parameters such as inrush current, peak value, effective value, PF (power factor). Voltage harmonics measurement capacity is up to 50th. The built-in LAN and USB communication interfaces are for reliable and fast control. IT8600 is the perfect solution for testing UPS, inverters, AC power supplies and relevant AC electronic components etc.

Features

- Frequency range: 45 Hz~450 Hz
- Power range: 0~14.4 kVA
- Voltage range: 50~420 Vrms, 15~260 Vrms
- Current range: 0~160 Arms
- Parallel connection/ three-phase control, power can extend up to 43.2kVA
- 7" LCD screen
- Oscilloscope function supporting display of voltage and current waveform
- High-speed AD sampling, real-time capture waveform
- Measure Vrms, Vpk, Vdc, Irms, Ipk, Idc, W, VA, VAR,CF, PF and FREQ
- Measures THD (V) up to 50th Harmonic
- AC electronic load: CC/CR/CP mode
- DC electronic load: CC/CR/CP/CV mode *1
- External 0~10 V analog control input, voltage and current analog monitoring function *2
- OTP, OCP, OVP, UVP and OPP protection function
- LAN and USB communication interfaces and external USB flash disk interface *3

*1 Only IT8615 and IT8615L are with CV function

*2 Only IT8615 and IT8615L have external analog function

*3 For any GPIB interface option request , check with ITECH for availability.

| Model | Voltage | Current | Power | Output |
|---------|-------------|---------|---------|----------|
| IT8615 | 50~420 Vrms | 20 Arms | 1800 VA | 1φ |
| IT8615L | 15~260 Vrms | 20 Arms | 1800 VA | 1φ |
| IT8616 | 50~420 Vrms | 40 Arms | 3600 VA | 1φ |
| IT8617 | 50~420 Vrms | 60 Arms | 5400 VA | 1φ or 3φ |
| IT8624 | 50~420 Vrms | 80 Arms | 7200 VA | 1φ |

| Model | Voltage | Current | Power | Output |
|--------|-------------|----------|----------|--------|
| IT8625 | 50~420 Vrms | 100 Arms | 9000 VA | 1φ |
| IT8626 | 50~420 Vrms | 120 Arms | 10.8 kVA | 1φ |
| IT8627 | 50~420 Vrms | 140 Arms | 12.6 kVA | 1φ |
| IT8628 | 50~420 Vrms | 160 Arms | 14.4 kVA | 1φ |

Applications

- UPS
- Inverter
- Frequency converter
- Generator
- AC power supply
- Electronic component



Display Multiple Parameters Simultaneously

IT8600 provides 7 inch LCD display screen, easy user interface. Give full consideration to engineers' requirements in different tests, IT8600 not only can display multiple parameters simultaneously, but also has diversified display modes for choice, such as waveform, histogram and list etc.



Harmonic Measuring And Analysis Function

IT8600 provides powerful data measurement function, which can not only support measurement of conventional parameters such as Vrms, Vpk, Vdc, Irms, Ipk, Idc, W, VA, VAR, CF, PF and Freq, but also provide unique voltage harmonic analysis function to verify the harmonic interference of the object (UPS, generators, etc.) to be measured over the grid. The harmonic measurement function supports analysis up to the 50th voltage harmonic and it can display the percentage of each harmonic analysis results in different forms.

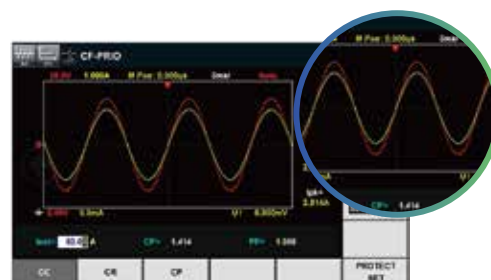


BAR

LIST

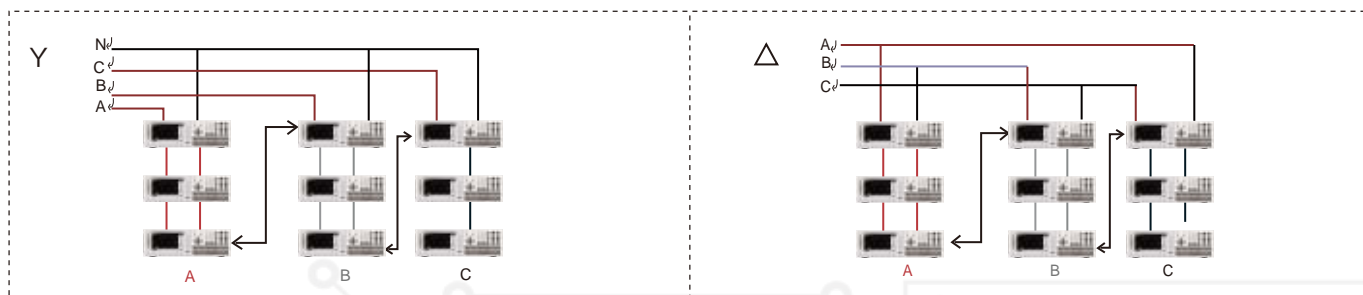
Oscilloscope Function

The most unique highlight of IT8600 lies in the oscilloscope display function, which can display the input voltage and current waveform of the device under test measured. Through the screenshot function key to save the current screen picture to peripheral storage disk by the front USB interface, easy for the second analysis.



Parallel/3-Phase Control

IT8600 provides parallel and 3-phase functions for three-phase and high-power applications, power can extend up to 43.2kVA after paralleling. In 3-phase applications, users can make in star or in delta connection according to their specific requirements. IT8600 is available for AC 380V input to meet diverse test requirements.



I/V Monitor

IT8600 AC/DC electronic load is with I/V monitor and allow users to observe current and DUT output voltage through connecting to oscilloscope of BNC. The function is very useful for users to monitor the change of voltage and current by waveforms. Not only simplify the wiring, improve the measurement accuracy, but also save test cost without oscilloscope current probe.

* Only IT8615 and IT8615L have external analog function

Your Power Testing Solution

IT8600 AC/DC Electronic Load

| Parameters | | IT8615 | IT8615L |
|------------------------------|---------------|--|---------------------------|
| AC Section | | | |
| Rated parameter | Input voltage | 50~420 Vrms , 600 V peak | 15~260 Vrms , 360 V peak |
| | Current | 0~20 Arms ,60 Apeak | 0~20 Arms ,60 A peak |
| | Power | 0~1800VA | 0~1800VA |
| | Frequency | 45~450 Hz | 45~450Hz |
| CC Mode *1 | Range | 0.1~20 Arms | 0.1~20 Arms |
| | Resolution | 2mA | 2mA |
| | Accuracy | ±(0.1%+0.2%FS) | ±(0.1%+0.2%FS) |
| CR Mode *2 | Range | 3 Ω~2.5 KΩ | 3Ω~2.5 KΩ |
| | Resolution | 16 bit | 16 bit |
| | Accuracy | 0.2% +0.01 S | 0.2% +0.01 S |
| CP Mode | Range | 1800VA | 1800VA |
| | Resolution | 0.4W | 0.4W |
| | Accuracy | 0.5%+0.5% FS | 0.5%+0.5% FS |
| Crest factor (CP,CC mode) | Range | 1.414~5.0 | 1.414~5.0 |
| | Resolution | 0.005 | 0.005 |
| | Accuracy | (0.5% / Irms) + 1% FS | (0.5% / Irms) + 1% FS |
| Power factor | Range | 0~1 phase lead or lag | 0~1 phase lead or lag |
| | Resolution | 0.001 | 0.001 |
| DC Section | | | |
| Input rating | voltage | 10~ 600V | 10~ 360V |
| | current | 0.1~20A | 0.1~20A |
| | power | 0~1800W | 0~1800W |
| Operation modes | | CC/CV/CR/CP | CC/CV/CR/CP |
| Short-circuit simulation | | Use the CC mode under the maximum power or maximum working current | |
| Meter | | | |
| Current | Range | 0~60A | 0~60A |
| | Resolution | 1mA | 1mA |
| | Accuracy | 0.1%+0.2%FS+0.1%*CF^2*KHZ | 0.1%+0.2%FS+0.1%*CF^2*KHZ |
| Voltage | Range | 0~600V | 0~360V |
| | Resolution | 10mV | 10mV |
| | Accuracy | 0.1%+0.1%FS | 0.1%+0.1%FS |
| Meter (continue) | | | |
| Others | | S(VA), Q(VAR), P(W), Ip+, Ip-, Freq, THDv, CF, PF, R, FFT | |
| Other | | | |
| Voltage Monitor | | ±600 V/±10 V(Isolated) | ±360 V±10 V(Isolated) |
| Current Monitor | | ±60 A/±10 V(Isolated) | ±60 A±10 V(Isolated) |
| Protection | | OCP/OVP/OPP/OTP | OCP/OVP/OPP/OTP |
| Interfaces | | USB/LAN * | USB/LAN * |
| Dimension(W*H*D) | | 3U | 3U |

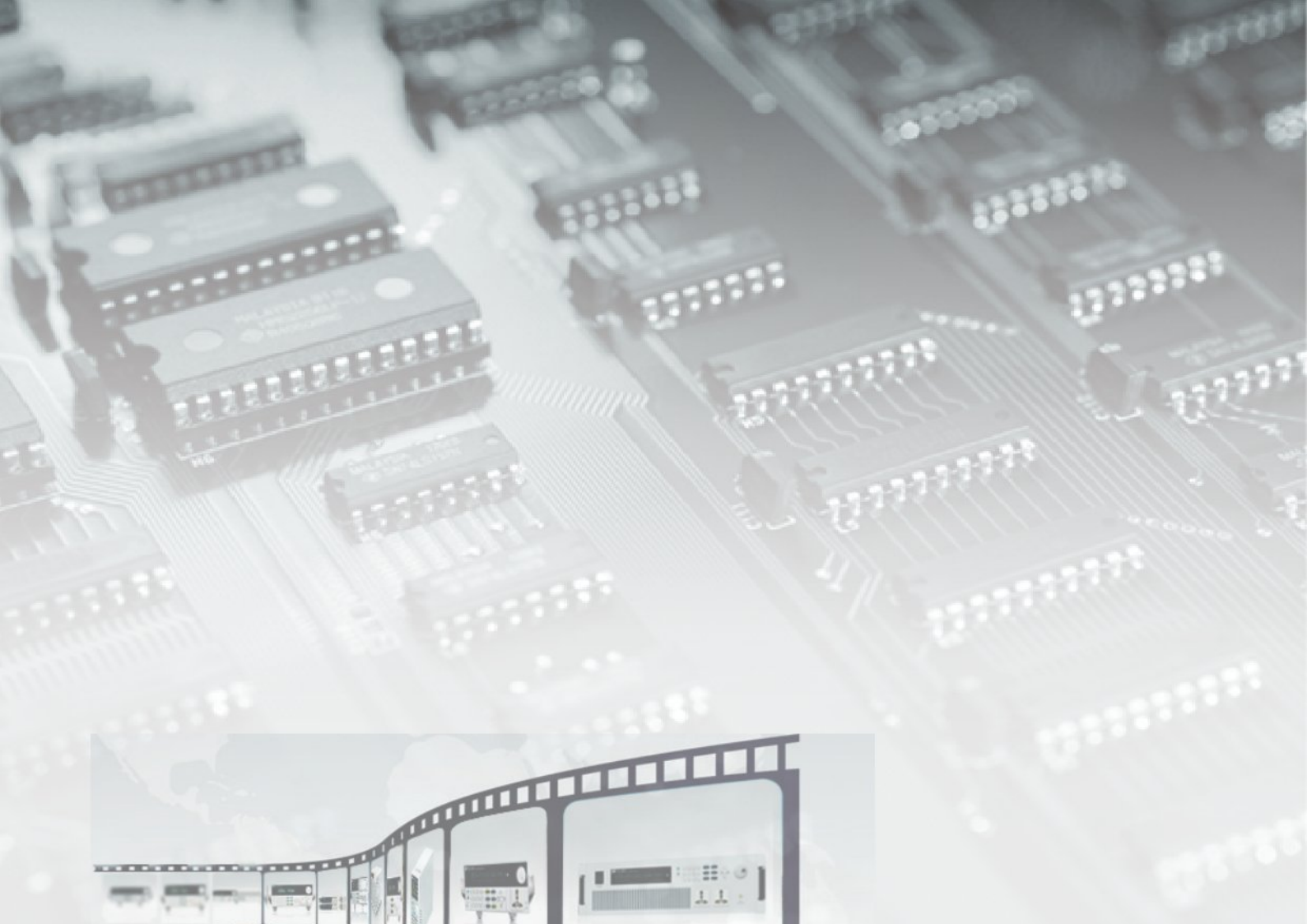
*1 Typical value at 45 Hz-100 Hz

*2 Resistance accuracy: $(1/(1/R+(1/R)*0.2\%+0.01), 1/(1/R-(1/R)*0.2\%-0.01))$

Test conditions: Voltage>10%FS, Current>10%FS

*3 Operating temperature: 0-40 C , Temperature coefficient: 100ppm/ C

* For any GPIB interface option request , check with ITECH for availability.



YOUR POWER TESTING SOLUTION

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

Taipei

Add: No.918, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan
Web: www.itechate.com
TEL: +886-3-6684333
E-mail: info@itechate.com



ITECH Web



ITECH Facebook



ITECH LinkedIn