East Tester®HangZhou ZhongChuang Electron Co.,Ltd

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# Catalog

# Catalog

**Temperator Logger Detector**

**ET3916 Muti channel Temeprature logger Detector**

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## Electric Measurement and instument

High Precision Digital Multimeter
ET3260A、ET3260B 6 1/2 Digital multimeter

| ET3260A、ET3260B 6 1/2 Digital multimeter | ET3260A | |
|---|---|---|
|  | ET3260 | |

| Model | | ET3260 | ET3260A |
|---|---|---|---|
| display | | 3.5-inch color screen (resolution 320*480) | |
| According digits | | 6 $^{1}/_{2}$ | |
| Signal terminal | | front-end/back-end | front-end |
| Maximum measurement speed | | 2500 readings per second | |
| function | Items | uncertainty， ±(% measurement + % range) | |
| DCV | uncertainty | 0.0035+ 0.0005 | |
| | Measuring range | 0 mV~1000 V | |
| | Maximum resolution | 100nV | |
| ACV | uncertainty | 0.06 + 0.03 | |
| | Measuring range | 1 mV~750 V | |
| | Maximum resolution | 100nV | |

| | | |
|---|---|---|
| | Frequency range | 3 Hz ~ 300 kHz |
| DCI | uncertainty | 0.05 + 0.006 |
| | Measuring range | 0 uA ~ 12 A |
| | Maximum resolution | 10 pA |
| ACI | uncertainty | 0.10 + 0.04 |
| | Measuring range | 1 uA ~ 12 A |
| | Maximum resolution | 100 pA |
| | Frequency range | 3 Hz ~ 10 kHz |
| resistance | uncertainty | 0.01 + 0.001 |
| | Measuring range | 0 Ω ~ 1 GΩ |
| | Maximum resolution | 10 uΩ |
| Frequency/ period | uncertainty | 0.01% |
| | Measuring range | 3 Hz ~ 1 MHz |
| | Maximum resolution | 1 uHz |
| capacitance | uncertainty | 1 + 0.3 |
| | Measuring range | 0 nF ~ 100 mF |
| | Maximum resolution | 1 pF |
| On- off/diode | | yes |
| proportion( DC: DC) | reference range | 100mV ~ 10 V |
| | Input range | 100mV ~ 1000 V |
| temperature | type | Platinum resistance, thermistor, custom sensor |
| | Maximum resolution | 0.001℃ |
| Mathematical functions | | Relative to (ax + b), maximum/minimum/average, standard deviation, dB, dBm, read retention, limit |

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| | |
|---|---|
| | test |
| graphics | Histogram, trend graph |
| interface | RS-232、IEEE 488、LAN、USB Device、USB Host、Trig IN/OUT |
| programming language | SCPI Compatible with Agilent 34401A 、34410 和 Fluke 45 |
| Data storage capacity | 512K |

ET3240X、ET3255X Digital multimeter ( 4 1/2,5 1/2 )

| ET3240X Digital multimeter | ET3240 | |
|---|---|---|
|  | ET3241 | |
| | ET3255 | |

| Model | | ET3240 | ET3241 | ET3255 |
|---|---|---|---|---|
| Display screen | | 3.5” TFT LCD (resolution of 320*480) | | |
| Number of display digits | | 4 1/2 | 4 1/2 | 5 1/2 |
| Signal terminal | | Front end | | |
| Fastest measuring speed | | 7 readings/s | | 6 readings/s |
| Function | No. | Uncertainty, ±(% of reading + least significant digit ) | | |
| | Uncertainty | 0.05+ 3 | 0.03+6 | 0.015+ 3 |

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| | | | | |
|---|---|---|---|---|
| DCV | Measurement range | 10 uV~1000 V | 1 uV~1000 V | 1 uV~1000 V |
| | Maximum resolution | 10uV | 10uV | 1uV |
| ACV | Uncertainty | 0.8+ 80 | 0.5+40 | 0.2+ 100 |
| | Measurement range | 10 uV~750 V | 10 uV~750 V | 1 uV~750 V |
| | Maximum resolution | 10uV | 10uV | 1uV |
| | Frequency range | 40Hz ~ 1kHz | 40Hz ~ 20kHz | 40Hz ~ 100kHz |
| DCI | Uncertainty | 0.35 +10 | 0.15+15 | 0.05 +10 |
| | Measurement range | 0.01 uA ~ 10 A | 0.01 uA ~ 10 A | 0.001 uA ~ 10 A |
| | Maximum resolution | 0.01uA | 0.01uA | 0.001uA |
| ACI | Uncertainty | 0.8+80 | 0.75+20 | 0.3+400 |
| | Measurement range | 0.01 uA ~ 10 A | 0.01 uA ~ 10 A | 0.001 uA ~ 10 A |
| | Maximum resolution | 0.01uA | 0.01uA | 0.001uA |
| | Frequency range | 40Hz ~ 1kHz | 40Hz ~20kHz | 40 Hz ~ 5kHz |
| Resistance | Uncertainty | 0.1+ 20 | 0.1+5 | 0.02+ 6 |
| | Measurement range | 0.01Ω ~20MΩ | 0.01Ω ~20MΩ | 0.001 Ω ~20MΩ |
| | Maximum resolution | 0.01Ω | 0.01Ω | 0.001Ω |
| Frequency/cycle | Uncertainty | 0.2+10 | 0.2+10 | 0.1+3 |
| | Measurement range | 0.01 Hz ~20 MHz | 0.01 Hz ~20 MHz | 0.001 Hz ~20 MHz |
| | Maximum resolution | 0.01Hz | 0.01Hz | 0.001Hz |
| Capacitance | Uncertainty | 7+ 30 | 6+15 | 5+5 |
| | Measurement range | 1 pF ~ 10 mF | 1 pF ~ 10 mF | 1 pF ~ 10 mF |
| | Maximum resolution | 11pF | 1pF | 1 pF |
| Mathematical functions: | | Relative measurement, max/min, dB, dBm, reading hold | | |
| Data storage/reading | | Yes | | |
| Interfaces | | USB device standard, RS232 optional | | USB Device, RS232 |
| Trigger measurement | | Yes | | |
| Square-wave output | | Yes | | |
| Fast measurement | | Optional configuration | | Yes |
| Resistance 4-line measurement | | Yes | | |
| External trigger measurement | | None | | Yes |
| AC+DC measurement | | | | Yes |
| Calibration | | Yes | | |
| On-off/diode | | Yes | | |
| Limit test function | | Yes | | |

Functional Signal Generator LCR Digital Bridge (desktop, hand-held)

ET33 Series Functional Signal Generator

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| ET33X Series Functional Signal Generator | ET3315X | |
|---|---|---|
|  | ET3325X | |
| | ET3340X | |
| | ET3360X | |
| | | |

- 3.5-inch 480×320TFT LCD with clear graphic interface
- Chinese / English menu available
- Press key for help and information
- File management supporting USB flash disk and local storage
- Two-channel output with the highest output frequency is ET3315X Model is 15MHz,ET3325X Model is 25MHz, ET3340X Model is 40MHz, ET3360X Model is 60MHz.
- Sampling rate: 200MSa/S, vertical resolution: 13 bit and storage depth: 8k
- 5 basic waveforms and 32 arbitrary waveforms in-built
- Pulse wave output set in edge time
- Internal/external AM, FM, PM, ASK, FSK and PSK modulation function
- Output of linear/logarithmic frequency sweep and burst waveform
- Frequency meter of high precision of 100MHz and 32-bit counter
- With RS232 interface, USB Device, USB Host interface supporting USB flash disk storage (USB Host Optional)
- Multi-functional arbitrary waveform editing software equipped

| **Frequency Characteristics** | | | | |
|---|---|---|---|---|
| **MODEL** | ET3315X | ET3325X | ET3340X | ET3360X |
| Sine | 1μHz ~ 15MHz | 1μHz ~ 25MHz | 1μHz ~ 40MHz | 1μHz ~ 60MHz |
| Square | 1μHz ~ 15MHz | 1μHz ~ 15MHz | 1μHz ~ 15MHz | 1μHz ~ 15MHz |
| Triangle | 1μHz ~ 15MHz | 1μHz ~ 15MHz | 1μHz ~ 15MHz | 1μHz ~ 15MHz |
| Pulse | 100μHz ~ 6MHz | 100μHz ~ 6MHz | 100μHz ~ 6MHz | 100μHz ~ 6MHz |
| Arbitrary | 1μHz ~ 6MHz | 1μHz ~ 6MHz | 1μHz ~ 6MHz | 1μHz ~ 6MHz |
| Noise （-3dB） | 7MHz Bandwidth | | | |
| Frequency Resolution | 1μHz | | | |
| Frequency | ±5ppm | | | |

| | | | |
|---|---|---|---|
| Accuracy | | | |
| Frequency Stability | ±1ppm/3hour | | |
| **Frequency Characteristics** | | | |
| Waveform Types | Sine, square, triangle, pulse, noise and arbitrary waves (including DC). There are 32 kinds of arbitrary waves and 50 kinds of user-defined waves. | | |
| Waveform Length | 8192 points | | |
| Waveform Sampling Rate | 200 MSa/s | | |
| Waveform Vertical Resolution | 13 bits | | |
| **Sine Wave Characteristics** | | | |
| Sine Wave | Harmonic Distortion | ≥45dBc(<1MHz); ≥40dBc(1MHz~20MHz) | |
| | Total Harmonic Distortion | <0.8%(20Hz ~ 20kHz, 0dBm) | |
| **Square Wave Signal Characteristics** | | | |
| Square Wave | Rise/Fall | <20ns | |
| | Overshoot | <5% | |
| | Duty Cycle | freq<100kHz: 1%~99%; 100kHz≤freq<5MHz: 20% ~ 80%; 5MHz≤freq: 40% ~ 60%(0.1% resolution) | |
| **Pulse Wave Characteristics** | | | |
| Pulse Wave | Pulse Width | Min 20ns; 1ns resolution | |
| | Edge Transition Time | Min 20ns; | |
| | Overshoot | <5% | |
| | Jitter | 6ns+0.1% Period | |
| **Ramp Wave Characteristics** | | | |
| Ramp Wave | Linearity Degree | ≥98%(0.01Hz~10kHz) | |
| | Symmetry | 0.0 ~ 100.0%(resolution 0.1%) | |
| **Output Characteristics** | | | |
| Amplitude | | | |
| Amplitude Range | freq＜10MHz | 10MHz≤freq＜30MHz | 30MHz≤freq |
| | 2mVpp ~ 20Vpp | 2mVpp ~10Vpp | 2mVpp ~5Vpp |
| Amplitude Resolution | 1mV | | |
| Amplitude Stability | ±1% set value±1mVpp（1kHz Sine，0 offset，>10mVpp） | | |
| Amplitude Flatness (relative to 1K Sine, | ±0.4dB <10MHz ； ±1.0dB ≥10MHz。 | | |

| | | |
|---|---|---|
| 1 Vpp) | | |
| Output Impedance | 50Ω±10%（Typical） | |
| Protection | All the signal output terminal can be shorted within 60s | |
| **DC Offset** | | |
| | Output Amplitude>0.1V | 2mV<Output Amplitude≤0.1V |
| Offset Adjusting Range | ±10Vpk，ac + dc | ±0.250Vpk，ac + dc |
| Offset Resolution | 1mV | |
| **Phase characteristics** | | |
| Phase Adjusting Range | 0~359.9° | |
| Phase Resolution | 0.1° | |
| **External Measurement Function** | | |
| Frequency Meter | Frequency measurement range | 1Hz ~ 100MHz |
| | Measurement accuracy | Gate time continuously adjusted between0.01s~10s |
| Counter Function | Counting region | 0 ~ 4294967295 |
| | Control mode | Manual operation |
| Input Signal Voltage Range | 2Vpp~20Vpp | |
| Coupled Mode | AC or DC | |
| Pulse Width Measurement | 1ns (resolution), 20s (MAX measuring time) | |
| Period Measurement | 1ns (resolution), 20s (MAX measuring time) | |
| **SYNC Output** | | |
| Output Channel | CH1 or CH2, default CH1 | |
| Level | TTL | |
| Impedance | 50Ω | |
| Rise/Fall Time | < 25ns | |
| Maximum Frequency | 25MHz | |
| **AM Modulation** | | |
| Output Channel | CH1 or CH2, default CH1 | |
| Carrier Wave | Sine, square, ramp, pulse and arbitrary waveforms (excluding DC) | |
| Source | Internal/External | |

| | |
|---|---|
| Modulation Wave | Sine, square, triangle and ramp |
| Modulation Frequency | 2mHz~20kHz |
| Modulation Depth | 0%~120% |
| **FM Modulation** | |
| Output Channel | CH1 or CH2, default CH1 |
| Carrier Wave | Sine, square, ramp, pulse and arbitrary waveforms (excluding DC) |
| Source | Internal/External |
| Modulation Wave | Sine, square, triangle and ramp |
| Modulation Frequency | 2mHz~20kHz |
| Frequency Offset | 0~Maximum carrier frequency |
| **PM Modulation** | |
| Output Channel | CH1 or CH2, default CH1 |
| Carrier Wave | Sine, square, ramp, pulse and arbitrary waveforms (excluding DC) |
| Source | Internal/External |
| Modulation Wave | Sine, square, triangle and ramp |
| Modulation Frequency | 2mHz~20kHz |
| Phase Offset | 0° ~ 360° |
| **ASK Modulation** | |
| Output Channel | CH1 or CH2, default CH1 |
| Carrier Wave | Sine, square, ramp, pulse and arbitrary waveforms (excluding DC) |
| Source | Internal/External |
| Modulation Wave | Square wave of 50% duty ratio |
| Keying Frequency | 2mHz~1MHz |
| Modulation Amplitude | 0~Carrier Amplitude |
| **FSK Modulation** | |
| Output Channel | CH1 or CH2, default CH1 |
| Carrier Wave | Sine, square, ramp, pulse and arbitrary waveforms (excluding DC) |
| Source | Internal/External |
| Modulation Wave | Square wave of 50% duty ratio |
| Keying Frequency | 2mHz~1MHz |
| Hop Frequency | Carrier frequency range |
| **PSK Modulation** | |
| Output Channel | CH1 or CH2, default CH1 |
| Carrier Wave | Sine, square, ramp, pulse and arbitrary waveforms (excluding DC) |

| | |
|---|---|
| Source | Internal/External |
| Modulation Wave | Square wave of 50% duty ratio |
| Keying Frequency | 2mHz~1MHz |
| Modulation Phase | 0° ~ 360° |
| **Frequency Sweep** | |
| Output Channel | CH1 or CH2, default CH1 |
| Types | Linearity/Logarithm |
| Sweep Frequency Time | 1ms ~ 500.000s |
| Start/Stop Frequency | 1μHz~Maximum carrier frequency |
| Sweep Direction | Forward, Backward |
| Trigger Source | Manual operating, internal, external |
| **Burst Characteristics** | |
| Output Channel | CH1 or CH2, default CH1 |
| Carrier Wave | Sine, square, ramp, pulse and arbitrary waveforms (excluding DC) |
| Pulse Count | 1~65535 or infinite, gated |
| Start/Stop Phase | 0~360° |
| Internal Period | 1μs~500s |
| Gating Source | External |
| Trigger Source | Internal, external, manual operating |
| **Trigger Input** | |
| Signal Range | 2Vpp~20Vpp |
| Coupling | AC or DC |
| Pulse Width | >100ns |
| Reaction Time | <500ns（Burst） |
| | <10μs（Sweep） |
| **Modulation Input** | |
| Impedance | 1MΩ |
| Signal range | ±2.5V ac+dc |

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| ET33C Series Functional Signal Generator | **3320C** | |
|---|---|---|
|  | **3330C** | |
| | **3340C** | |
| | **3350C** | |
| | **3360C** | |

ET33C series two-channel function/arbitrary wave generator (hereinafter referred to as ET33C series) adopts direct digital frequency synthesis technology, which can output signals with high accuracy, stability and low distortion.

ET33C series has five models: ET3320C, ET3330C, ET3340C, ET3350C, ET3360C, the highest output frequency is 20MHz, 30MHz, 40MHz, 50MHz and 60MHz respectively.

- 2.4-inch 320X240 TFT LCD with clear graphic interface
- Chinese / English menu available
- Both channels are independent of each other and have phase synchronization function.
- Sampling rate: 200MSa/S, vertical resolution: 13 bit and storage depth: 8k
- 5 basic waveforms and 32 arbitrary waveforms in-built
- waveform storage; Support internal storage of 50 groups of user-defined edited waveforms;
- Pulse wave output set in edge time
- Internal AM, FM, PM modulation function（External AM, FM, PM modulation is optional）
- Internal/external ASK, FSK, PSK modulation function;
- Dual channel output, maximum output frequency 60M;
- Output of linear/logarithmic sweep and burst (pulse train) waveforms;
- With 100MHz high precision frequency meter and 32 bit counter;
- Standard USB Device interface; Optional external analog modulation interface;
- Equipped with multifunctional arbitrary waveform editing software.

| **Frequency Characteristics** | | | | | |
|---|---|---|---|---|---|
| Model | ET3320C | ET3330C | ET3340C | ET3350C | ET3360C |
| Sine | 1μHz~ 20MHz | 1μHz ~ 30MHz | 1μHz ~ 40MHz | 1μHz ~ 50MHz | 1μHz ~ 60MHz |
| Square | 1μHz ~ 15MHz | 1μHz ~ 15MHz | 1μHz ~ 15MHz | 1μHz ~ 15MHz | 1μHz ~ 15MHz |
| Triangle | 1μHz ~ 15MHz | 1μHz ~ 15MHz | 1μHz ~ 15MHz | 1μHz ~ 15MHz | 1μHz ~ 15MHz |
| Pulse | 100μHz ~ 6MHz | 100μHz ~ 6MHz | 100μHz ~ 6MHz | 100μHz ~ 6MHz | 100μHz ~ 6MHz |
| Arbitrary | 1μHz ~ 6MHz | 1μHz ~ 6MHz | 1μHz ~ 6MHz | 1μHz ~ 6MHz | 1μHz ~ 6MHz |

| | | | |
|---|---|---|---|
| Frequency Resolution | 1μHz | | |
| Frequency Accuracy | ±20ppm | | |
| Frequency Stability | ±1ppm/3 hour | | |
| **Waveform Characteristics** | | | |
| Waveform Types | Sine, square, triangle, pulse, noise and arbitrary waves (including DC). There are 32 kinds of arbitrary waves and 50 kinds of user-defined waves. | | |
| Waveform Length | 8192 points | | |
| Waveform Sampling Rate | 200MSa/s | | |
| Waveform vertical resolution | 13bits | | |
| **Sine Wave Characteristics** | | | |
| Sine Wave | Harmonic suppression degree | ≥45dBc(<1MHz);<br>≥40dBc(1MHz~20MHz) | |
| | Total harmonic distortion | <0.8%(20Hz ~ 20kHz, 0dBm) | |
| **Square Wave Signal Characteristics** | | | |
| Square Wave | Rise/Fall | <20ns | |
| | Overshoot | <5% | |
| | Duty Cycle | freq<100kHz: 1%~99%;<br>100kHz≤freq<5MHz: 20% ~ 80%;<br>5MHz≤freq: 40% ~ 60%(0.1% resolution) | |
| **Pulse Wave Characteristics** | | | |
| Pulse Wave | Pulse Width | Min 20ns; 1ns resolution | |
| | Edge jump time | Min 20ns; | |
| | Overshoot | <5% | |
| | Jitter | 6ns+0.1%Period | |
| **Sawtooth wave Characteristics** | | | |
| Sawtooth wave | Linearity Degree | ≥98%(0.01Hz~10kHz) | |
| | Symmetry | 0.0 ~ 100.0%(resolution0.1%) | |
| **Output Characteristics** | | | |
| Amplitude | | | |
| Amplitude Range | freq＜10MHz | 10MHz≤freq＜30MHz | 30MHz≤freq |
| | 2mVpp ~ 20Vpp | 2mVpp ~10Vpp | 2mVpp ~5Vpp |

| | | |
|---|---|---|
| Amplitude Resolution | 1mV | |
| Accuracy of amplitude | 1% of set value +2mVpp（1kHz Sine，0 offset，>10mVpp） | |
| Amplitude accuracy Amplitude flatness (Relative to 1K sine wave, 1Vpp) | ±0.4dB <10MHz ；<br>±1.0dB ≥10MHz。 | |
| Output Impedance | 50Ω±10%（Typical） | |
| Protection | All signal output terminals can work within 60s under load short circuit | |
| **Offset** | | |
| | Output Amplitude>0.1V | 2mV<Output Amplitude≤0.1V |
| Output range | ±10Vpk，ac + dc | ±0.250Vpk，ac + dc |
| Offset Resolution | 1mV | |
| **Phase characteristics** | | |
| Phase Adjusting Range | 0~359.9° | |
| Phase Resolution | 0.1° | |
| **External Measurement Function** | | |
| Frequency Meter Function | range | 1Hz ~ 100MHz |
| | Gate time | 0.01s ~ 10s continuously adjusted |
| Counter Function | Counting region | 0 ~ 4294967295 |
| | Counting method | Manual operation |
| Input Signal Voltage Range | 2Vpp~20Vpp | |
| Coupled Mode | AC or DC | |
| Pulse Width Measurement | 1ns(resolution，MAX measuring time 20s | |
| Period Measurement | 1nsresolution，MAX measuring time 20s | |
| **AM Modulation** | | |
| Output Channel | CH1 or CH2 | |
| Carrier Wave | Sine, square, sawtooth wave, pulse and arbitrary waveforms (excluding DC) | |
| Source | Internal/External VCO(external optional) | |
| Modulation Wave | Sine wave, square wave, triangle wave, upper oblique wave, lower oblique wave | |
| Modulation Frequency | 2mHz~20kHz | |
| Modulation depth | 0%~120% | |
| **FM Modulation** | | |
| Output Channel | CH1 or CH2 | |

| | |
|---|---|
| Carrier Wave | Sine, square, sawtooth wave, pulse and arbitrary waveforms (excluding DC) |
| Source | Internal/External VCO(external optional) |
| Modulation Wave | Sine wave, square wave, triangle wave, upper oblique wave, lower oblique wave |
| Modulation | 2mHz~20kHz |
| Frequency Offset | 0~Maximum carrier frequency |
| **PM Modulation** | |
| Output Channel | CH1 or CH2 |
| Carrier Wave | Sine, square, sawtooth wave, pulse and arbitrary waveforms (excluding DC) |
| Source | Internal/External VCO(external optional) |
| Modulation Wave | Sine wave, square wave, triangle wave, upper oblique wave, lower oblique wave |
| Modulation freq. | 2mHz~20kHz |
| Frequency Offset | 0° ~360° |
| **ASK Modulation** | |
| Output Channel | CH1 or CH2 |
| Carrier Wave | Sine, square, sawtooth wave, pulse and arbitrary waveforms (excluding DC) |
| Source | Internal/External |
| Modulation Wave | A square wave with 50% duty cycle |
| Modulation freq. | 2mHz~1MHz |
| Amplitude modulation | 0~Carrier wave amplitude |
| **FSK Modulation** | |
| Output Channel | CH1 or CH2 |
| Carrier Wave | Sine, square, sawtooth wave, pulse and arbitrary waveforms (excluding DC) |
| Source | Internal/External |
| Modulation Wave | A square wave with 50% duty cycle |
| Modulation rate | 2mHz~1MHz |
| Frequency hopping | Carrier frequency range |
| **PSK Modulation** | |
| Output Channel | CH1 or CH2 |
| Carrier Wave | Sine, square, sawtooth wave, pulse and arbitrary waveforms (excluding DC) |
| Source | nternal/External |
| Modulation Wave | A square wave with 50% duty cycle |
| Modulation rate | 2mHz~1MHz |
| The phase modulation | 0° ~360° |
| Frequency sweep function | |

| | |
|---|---|
| Sweep frequency channel | CH1 or CH2 |
| Frequency sweep type | Linear scan, logarithmic scan |
| Frequency sweep time | 1ms ~ 999.999s |
| Setting range | Arbitrarily set the start and end points |
| Frequency sweep direction | Forward, reverse, round trip |
| Trigger source | Internal, external, manual |
| **Burst Characteristic** | |
| Output Channel | CH1 or CH2 |
| Carrier Wave | Sine wave, square wave, sawtooth wave, pulse wave, noise, arbitrary wave (except DC) |
| Pulse count | 1 to 1048575 or Unlimited or gated |
| Start/stop phase | 0~360° |
| Intercycle | 1μs~500s |
| Door control source | external |
| Trigger source | Internal, external, manual |
| **Trigger input** | |
| Input signal voltage range | 2Vpp~20Vpp |
| Coupled mode | DC or AC |
| Pulse width | >100ns |
| Response time | <500ns（pulse train） |
| | <10μs（sweep frequency） |
| **Analog modulation input (optional)** | |
| Input inpedance | 1MΩ |
| Singal range | ±2.5V ac+dc |

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# Digital LCR Meter (Benchtop /Handheld)

ET35 Series Precision Digital Bridge

| ET35 Series Precision Digital Bridge | | |
|---|---|---|
|  | ET3501 | |
| | ET3502 | |
| | ET3503 | |
| | ET3505 | |
| | ET3510 | |



| Model | Description |
|---|---|
| ET3501 | 100 kHZ frequency range, 0.05% basic accuracy, 6 1/2 digit display |
| ET3502 | 200 kHZ frequency range, 0.05% basic accuracy, 6 1/2 digit display |
| ET3503 | 300 kHZ frequency range, 0.05% basic accuracy, 6 1/2 digit display |
| ET3505 | 500 kHZ frequency range, 0.05% basic accuracy, 6 1/2 digit display |
| ET3510 | 1 MHZ frequency range, 0.05% basic accuracy, 6 1/2 digit display |

| **Model** | **ET3510** | **ET3505** | **ET3503** | **ET3502** | **ET3501** |
|---|---|---|---|---|---|
| Test signal frequency range | 10Hz-1MHz | 10Hz-500kHz | 10Hz-300kHz | 10Hz-200kHz | 10Hz-100kHz |
| Frequency resolution 、accuracy | Resolution:1mHz， Accuracy:0.01% | | | | |
| Test parameters | Cp-D，Cp-Q，Cp-G，Cp-Rp，Cs-D，Cs-Q，Cs-Rs，Lp-D，Lp-Q，Lp-G，Lp-Rp，Ls-D，Ls-Q，Ls-Rs，Rs-Xs，\|Z\|-θr，\|Z\|-θd，\|Y\|-θr，\|Y\|-θd，G-B | | | | |
| Measuring display speed | Fast:50times/s（20ms ），Medium:10times/s（100ms ），Slow:1.25times/s（800ms ） | | | | |
| Custom measuring speed | Between 0.5times/s～200times/s,Can be set | | | | |
| LCR parameter range | Cp、Cs：0.001000pF~99.9999F<br>Lp、Ls：0.001000nH~99.9999kH<br>Rp、Rs、\|Z\|、Xs：0.001000mΩ~999.999MΩ | | | | |

| | |
|---|---|
| | G、B、\|Y\|：0.001000μS~999.999kS<br>θr：±0.000001rad~3.14159rad<br>θd：±0.000001deg~179.9999deg<br>D：±0.000001~9.99999<br>Q：±0.001~99999.9 |
| Test signal voltage range | 0～2Vrms |
| Voltage resolution、accuracy | Resolution:1mV，accuracy:5%+5mV |
| Test signal current range | 100μArms～20mArms |
| Current resolution、accuracy | Resolution:10μA，accuracy:5%+50μA |
| DC bias voltage source | Internal：-2V～+2V voltage bias，-20mA～+20mA current bias<br>External ：-60V～+60V voltage bias |
| Internal resistance of signal source | 30 Ohm or 100 Ohm, selectable |
| Basic accuracy | 0.05% |
| Display resolution | 6 1/2 digit |
| Comparator | 9 groups of qualified setting, one group of unqualified setting, one group of auxiliary setting |
| Triggered mode | Internal,External,manual, bus |
| Mathematical operations | Delta（absolute value），Delta%（percentage），Direct reading |
| Calibration function | Self-calibration, open circuit,short circuit,load,100 groups of customised frequency point |
| List scanning | 10-point list scanning testing |
| Storage device | Internal/USB storage device |
| Interface | GPIB、LAN、RS232、USB Host、USB Device、Handler |

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| ET43Series Functional Signal Generator | ET430B | |
|---|---|---|
|  | ET430 | |
| | ET431 | |
| | ET432 | |
| | ET433 | |
| | | |

| Model | ET430 | ET430B | ET431 | ET432 | ET433 |
|---|---|---|---|---|---|
| Testing frequency | 100Hz, 120Hz, 1KHz, 10KHz, 40kHz, 100KHz | 100Hz, 20Hz, 1KHz, 10KHz | 100Hz, 120Hz, 1KHz, 10KHz | 100Hz, 120Hz, 1KHz, 10KHz, 40kHz, 100KHz | 100Hz-100KHz Continuously adjustable, a step of 1 Hz |
| Basic accuracy | 0.3% | 0.3% | 0.2% | 0.2% | 0.2% |
| Display screen | 2.8” TFT LCD screen | | | | |
| lumber of display digits | Principal parameter: 5 digit<br>Secondary parameter: 5 digit | | | | |
| Measured parameter: | Principal parameter: L/C/R/Z<br>Secondary parameter: X/D/Q/θ/ESR | | | | |
| trolytic capacitor mode | × | √ | √ | √ | √ |
| DCR mode | × | × | √ | √ | √ |
| Measurement range | L：0.000μH～2000H，C：0.000pF～20.000mF，R：0.0001Ω～20.000MΩ | | | | |
| easuring display speed | 1 time/s (slow), 2 times/s (medium), 4 time/s (fast) | | | | |
| Internal bias | × | | 0-500mV adjustable, at a step of 1mV. | | |
| Testing level | 0.6Vrms | 0.3Vrms, 0.6Vrms | 0.1Vrms, 0.3Vrms, 0.6Vrms,1Vrms | | 0-1V adjustable |
| Calibration function | Open circuit calibration, short circuit calibration | | | | |
| Screening function | The limit range of screening can be set to 1%-50%, and the fixed points are 1%, 5%, 10% and 20%. | | | | |
| eviation measurement | Used for comparing and displaying deviation percentage of component and the set nominal value | | | | |
| Others | Adjustment of backlight brightness, Chinese and English are optional,USB device and automatic power-off time | | | | |
| Accessories | | | | | |
| Standard configuration | 1. Mini-USB cable; 2. Power adapter; 3. Short circuit bar;<br>4. Red and black rubber plug; 5. High capacity lithium battery | | | | |

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| | | |
|---|---|---|
| | | Kelvin clips |
| Optional configuration | Kelvin clips<br>SMD clips | SMD clips |

ET44、ET45 Series(Economical) Series Digital Bridge

| | | |
|---|---|---|
| ET44，ET45 Series Functional Signal Generator  | ET4401 | |
| | ET4402 | |
| | ET4410 | |
| | ET4501 | |
| | ET4502 | |
| | ET4510 | |

| **Model** | 10k (Fixed fr.) | 20k (Fixed fr.) | 100k (Fixed fr.) | 10k (Continuous fr.) | 20k (Continuous fr.) | 100k (Continuous fr.) |
|---|---|---|---|---|---|---|
| Testing frequency | 10 Points（100、120、200、400、800、1K、2K、4K、8K、10K） | 12 Points（100、120、200、400、800、1K、2K、4K、8K、10K、15K、20K） | 16 Points（100、120、200、400、800、1K、2K、4K、8K、10K、15K、20K、40K、50K、80K、100K） | 10~10KHz Continuously adjustable, a step of 1 Hz | 10~20KHz Continuously adjustable, a step of 1 Hz | 10~100KHzContinuously adjustable, a step of 1 Hz |
| Display screen | 3.5” TFT LCD screen | | | | | |
| Number of display digits | Principal parameter: 5 digit<br>Secondary parameter: 5 digit | | | | | |
| Measured parameter: | Principal parameter: L/C/R/Z<br>Secondary parameter: X/D/Q/ θ /ESR | | | | | |
| Measurement range | L：0.001μH～9999H，<br>C：0.001pF～99.999mF，<br>R：0.0001Ω～99.99MΩ | | | | | |
| Basic accuracy | 0.2% | | | | | |
| Measuring display speed | 2 time/s (slow), 4 times/s (medium), 8 time/s (fast) | | | | | |
| Internal bias | 0-1500mV adjustable, at a step of 1mV. | | | | | |
| Testing level | Six fixed level(0.1V、0.3V、0.6V、1V、1.5V、 | | | 0.1~2V adjustable, at a step of 1mV. | | |

| | | | |
|---|---|---|---|
| | | 2V) | |
| | Signal source output impedance | 30Ω、100Ω | |
| | Calibration function | Open circuit calibration, short circuit calibration | |
| | Screening function | The limit range of screening can be set to -50%～＋50%, and the fixed points are 1%, 5%, 10% and 20%. | |
| | Comparator | 5 groups sorting,3 groups of qualified setting, one group of unqualified setting, one group of auxiliary setting | |
| | Interfaces | standard: RS232（or 485）, USB Device, Handler ;optional :GPIB,USB Host | |
| | Others | Support dc resistance (DCR), electrolytic capacitor measurement model,Adjustment of backlight brightness, Chinese and English are optional | |

# ET54A+ Series Programmable Electronic Load (Economical)

| | | |
|---|---|---|
| ET54A+ Series Programmable Electronic Load (Economical)  | ET5410A+ | |
| | ET5411A+ | |
| | ET5420A+ | |

| MODEL | | ET5410 A+ | ET5420 A+ | ET5411 A+ |
|---|---|---|---|---|
| Channels | | Single Channel | Double channels | Single Channel |
| Rated input | Power | 400W | 400W (200W×2) | 400W |
| | Input voltage | 0-150V | 0-150V | 0-500V |

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| | | | | |
|---|---|---|---|---|
| | Input current | 0-40A | 0-20A×2 | 0-15A |
| CV mode | Range | 0.1~19.999V，0.1~150.00V | | 0.1~19.999V ， 0.1~500.00V |
| | Resolution | 1mV，10mV | | |
| | Accuracy | ±(0.05%+0.02%FS) | | |
| CC mode | Range | 0~3.000A，0~40.00A | 0~3.000A，0~20.00A | 0~3.000A，0~15.00A |
| | Resolution | 1mA，10mA | | |
| | Accuracy | ±(0.05%+0.05%FS) | | |
| CR mode | Range | 0.05Ω~1kΩ，1kΩ~4.5kΩ | | |
| | Resolution | 10mΩ，100mΩ | | |
| | Accuracy | ±(0.1%+0.5%FS) | | |
| CP mode | Range | 0~400W | 0~200W | 0~400W |
| | Resolution | 10mW | | |
| | Accuracy | ±(0.1%+0.5%FS) | | |
| Tran Test | Mode | CC，CV | | |
| | T1&T2 | 1ms~60s；resolution：1ms | | |
| | Accuracy | 0.1%+1ms | | |
| Battery Test | Discharge mode | CC，CR | | |
| | Maximum discharge capacity | 9999Ah | | |
| | Resolution | 1mA，10mA，10mΩ，100mΩ | | |
| Range of measurement | | | | |
| Voltage read-back value | Range | 0~19.999V，0~150.00V | | 0~19.999V，0~500.00V |
| | Resolution | 1mV，10mV | | 1mV，10mV |
| | Accuracy | ±(0.05%+0.1%FS) | | |
| Current read-back value | Range | 0~3.000A，0~40.00A | 0~3.000A，0~20.00A | 0~3.000A，0~15.00A |
| | Resolution | 1mA，10mA | | |
| | Accuracy | ±(0.05%+0.1%FS) | | |
| Power read-back value | Range | 0~400W | 0~200W | 0~400W |
| | Resolution | 10mW | | |
| | Accuracy | ±(0.1%+0.5%FS) | | |
| Scope of protection | | | | |
| Over Voltage Protection(OV) | | ＞155V cut off input | | ＞ 510V cut off input |
| Over Current | | ＞42A cut off input | ＞22A cut off input | ＞ 16A cut off |

| | | | | |
|---|---|---|---|---|
| Protection(OC) | | | | input |
| Over Power Protection(OP) | | 420W | 220W | 420W |
| Over Temperature Protection | | 85℃ | | |
| Short Circuit | Current （CC） | ≒3A<br>≒40A | ≒3A<br>≒20A | ≒3A<br>≒15A |
| | Voltage （CV） | 0V | | |
| | Resistance （CR） | ≒40mΩ | | |

## ET53A+ Series Programmable Electronic Load (Economical)

| | | |
|---|---|---|
| ET53 Series Programmable Electronic Load (Economical)  | ET5300A | |
| | ET5300 | |
| | ET5301 | |
| | ET5302 | |
| | ET5303 | |
| | ET5304 | |

ET53 series DC programmable electronic load provides 1mV/10mV, 1mA/10mA high resolution and precision with superior performance. It is equipped with 12 common modes and complete test functions, which can be widely used in charger, switching power supply, linear power supply, battery and other production line testing.

- User-friendly Design:
  - It adopts 3.5-inch TFT LCD screen with rich display contents and supports Chinese and English display;
  - The operation process is simple and convenient, and with visual interface display system, it is easy to get started.
  - Key lock function to prevent misoperation;
- High-performance load:
  - It provides CC, CV, CR, CP and CC+CV, CR+CV several basic measurement modes;
  - It provides professional battery test;

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- It provides professional LED test;
- The Tran test mode can test the dynamic output performance of the power supply;
- The scan test mode can test the continuity of power output within a certain range;
- Support 4-wire measurement;
- The list test mode can simulate a variety of loading status changes;
- The short circuit test can be used to simulate load short circuit;
- Support external trigger input;
- Built-in buzzer alarm;
- Maintain data storage in case of power failure;
- Remote operation via USB, RS-232or 485 (optional) interfaces;

➢ Multiple safety protection:

- It provides overcurrent, overvoltage, overpower, over temperature protection. The overvoltage and overcurrent parameters can be set flexibly, so as to effectively protect the load;
- It has intelligent fan speed control function, which can effectively reduce the fan noise when it is working.
- With input polarity reverse prompt;

| **Model** | | **ET5300A** | **ET5300** | **ET5301** |
|---|---|---|---|---|
| Rated input | Power | 200W | 400W | |
| | Input voltage | 0-150V | | |
| | Input current | 0-30A | 0-40A | 0-60A |
| CV mode | Range | 0.1~19.999V,0.1~150.00V | | |
| | Resolution | 1mV,10mV | | |
| | Accuracy | ±(0.05%+0.02%FS) | | |
| CC mode | Range | 0~3.000A | | 0~6.000A |
| | | 0~30.00A | 0~40.00A | 0~60.00A |
| | Resolution | 1mA,10mA | | |
| | Accuracy | ±(0.05%+0.05%FS) | | |
| CR mode | Range | 0.05Ω~1kΩ，1kΩ~4.5kΩ | | |
| | Resolution | 10mΩ，100mΩ | | |
| | Accuracy | ±(0.1%+0.5%FS) | | |
| CP mode | Range | 0~200W | 0~400W | |
| | Resolution | 10mW | | |
| | Accuracy | ±(0.1%+0.5%FS) | | |
| Tran Test | Mode | CC，CV | | |
| | T1&T2 | 50ms~60s； | | |
| Battery Test | Accuracy | CC，CR | | |
| | Discharge mode | 9999Ah | | |
| | Maximum discharge capacity | 1mA，10mA，10mΩ，100mΩ | | |
| Range of measurement | | | | |

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| | | | | |
|---|---|---|---|---|
| Voltage read-back value | Range | 0~19.999V,0 ~150.00V | | |
| | Resolution | 1mV,10mV | | |
| | Accuracy | ±(0.05%+0.1%FS) | | |
| Current read-back value | Range | 0~3.000A | | 0~6.000A |
| | | 0~30.00A | 0~40.00A | 0~60.00A |
| | Resolution | 1mA,10mA | | |
| | Accuracy | ±(0.05%+0.1%FS) | | |
| Power read-back value | Range | 200W | 400W | |
| | Resolution | 10mW | | |
| | Accuracy | ±(0.1%+0.5%FS) | | |
| Scope of protection | | | | |
| Overvoltage protection | | ＞21V or 155V overvoltage protection | | |
| Overcurrent protection | | ＞3.1A or 31A input cut off | ＞3.1A or 41A input cut off | ＞6.1A or 61A input cut off |
| Overpower protection | | 210W | 410W | |
| | | | | |
| Over-temperature protection | | 85℃ | | |

| **Model** | | **ET5304** |
|---|---|---|
| Rated input | Power | 400W（200W*2） |
| | Input voltage | 0-150V |
| | Input current | 0-60A(30A*2) |
| CV mode | Range | 0.1~19.999V，0.1~150.00V |
| | Resolution | 1mV，10mV |
| | Accuracy | ±(0.05%+0.02%FS) |
| CC mode | Range | 0~3.000A，0~30.00A |
| | Resolution | 1mA，10mA |
| | Accuracy | ±(0.05%+0.05%FS) |
| CR mode | Range | 0.05Ω~1kΩ，1kΩ~4.5kΩ |
| | Resolution | 10mΩ，100mΩ |
| | Accuracy | ±(0.1%+0.5%FS) |
| CP mode | Range | 0~200W |
| | Resolution | 10mW |
| | Accuracy | ±(0.1%+0.5%FS) |
| Tran Test | Mode | CC，CV |
| | T1&T2 | 50ms~60s； |
| Battery Test | Accuracy | CC，CR |
| | Discharge mode | 9999Ah |
| | Maximum discharge capacity | 1mA，10mA，10mΩ，100mΩ |

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| | | | |
|---|---|---|---|
| Range of measurement | | | |
| Voltage read-back value | Range | 0~19.999V,0 ~150.00V | |
| | Resolution | 1mV,10mV | |
| | Accuracy | ±(0.05%+0.1%FS) | |
| Current read-back value | Range | 0~3.000A,0~30.00A | |
| | Resolution | 1mA,10mA | |
| | Accuracy | ±(0.05%+0.1%FS) | |
| Power read-back value | Range | 200W | |
| | Resolution | 10mW | |
| | Accuracy | ±(0.1%+0.5%FS) | |
| Scope of protection | | | |
| Overvoltage protection | | ＞21V or 155V overvoltage protection | |
| Overcurrent protection | | ＞3.1A or 31A input cut off | |
| Overpower protection | | 210W | |
| Over-temperature protection | | 85℃ | |
| **Model** | | **ET5302** | **ET5303** |
| Rated input | Power | 400W | |
| | Input voltage | 0-500V | |
| | Input current | 0-15A | 0-30A |
| CV mode | Range | 0.1~19.999V,0.1~500.00V | |
| | Resolution | 1mV,10mV | |
| | Accuracy | ±(0.05%+0.02%FS) | |
| CC mode | Range | 0~3.000A,0~15.00A | 0~3.000A,0~30.00A |
| | Resolution | 1mA,10mA | |
| | Accuracy | ±(0.05%+0.05%FS) | |
| CR mode | Range | 0.05Ω~1kΩ，1kΩ~4.5kΩ | |
| | Resolution | 10mΩ，100mΩ | |
| | Accuracy | ±(0.1%+0.5%FS) | |
| CP mode | Range | 0~400W | |
| | Resolution | 10mW | |
| | Accuracy | ±(0.1%+0.5%FS) | |
| Tran Test | Mode | CC，CV | |
| | T1&T2 | 50ms~60s； | |
| Battery Test | Accuracy | CC，CR | |
| | Discharge mode | 9999Ah | |
| | Maximum discharge capacity | 1mA，10mA，10mΩ，100mΩ | |
| Range of measurement | | | |
| Voltage read-back value | Range | 0~19.999V,0 ~500.00V | |
| | Resolution | 1mV,10mV | |

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| | | | |
|---|---|---|---|
| | Accuracy | ±(0.05%+0.1%FS) | |
| Current read-back value | Range | 0~3.000A,0~15.00A | 0~3.00A,0~30.00A |
| | Resolution | 1mA,10mA | |
| | Accuracy | ±(0.05%+0.1%FS) | |
| Power read-back value | Range | 400W | |
| | Resolution | 10mW | |
| | Accuracy | ±(0.1%+0.5%FS) | |
| Scope of protection | | | |
| Overvoltage protection | | ＞21V or 510V overvoltage protection | |
| Overcurrent protection | | ＞3.1A or 16A input cut off | ＞3.1A or 31A input c off |
| Overpower protection | | 410W | |
| Over-temperature protection | | 85℃ | |

**ET5406A+/ET5407A+SingleChannel Programmable DC Electronic Load**

| | |
|---|---|
| ET5406A+ | 200W 0-120V 0-20A |
| ET5407A+ | 200W 0-180V 0-30A |

| MODEL | | ET5406A+ | ET5407A+ |
|---|---|---|---|
| Rated input | Power | 200W | 200W |
| | Input voltage | 0-120V | 0-180V |
| | Input current | 0-20A | 0-30A |
| CV mode | Range | 0.1~19.999V,0.1~120.00V | 0.1~19.999V,0.1~180.00V |
| | Resolution | 1mV,10mV | |
| | Accuracy | ±（0.05%+0.02%FS） | |
| CC mode | Range | 0~3.000A,0~20.00A | 0~3.000A,0~30.00A |
| | Resolution | 1mA,10mA | |

| | | | |
|---|---|---|---|
| | Accuracy | ±（0.05%+0.05%FS） | ±（0.05%+0.05%FS） |
| CR mode | Range | 0.05Ω~4.50kΩ | |
| | Resolution | 10mΩ，1Ω | |
| | Accuracy | ±（0.1%+0.5%FS） | |
| CP mode | Range | 0~200W | 0~200W |
| | Resolution | | 10mW |
| | Accuracy | | ±（0.1%+0.5%FS） |
| Tran Test | Mode | | CC，CV |
| | T1&T2 | | 0.05s~99.999s |
| Battery Test | Discharge mode | | CC，CR |
| | Maximum discharge capacity | | 9999Ah |
| | Resolution | | 1mA，10mA，10mΩ，1Ω |
| Range of measurement | | | |
| Voltage read-back value | Range | 0~19.999V,0~120.00V | 0~19.999V,0~180.00V |
| | Resolution | | 1mV,10mV |
| | Accuracy | | ±（0.05%+0.1%FS） |
| Current read-back value | Range | 0~3.000A,0~20.00A | 0~3.000A,0~30.00A |
| | Resolution | | 1mA,10mA |
| | Accuracy | ±（0.05%+0.1%FS） | ±（0.05%+0.1%FS） |
| Power read-back value | Range | | 200W |
| | Resolution | | 10mW |
| | Accuracy | | ±（0.1%+0.5%FS） |
| Scope of protection | | | |
| Over Voltage Protection(OV) | | ＞21V OR ＞125V over voltage protection | ＞21V OR ＞185V over voltage protection |
| Over Current Protection(OC) | | ＞3.1 or ＞21A over current protection | ＞3.1 or ＞31A over current protection |
| Over Power Protection(OP) | | 210W | |
| Over Temperature Protection | | 85℃ | |

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| ET5470 Series Protable DC Electronic Load | ET5470 | |
|---|---|---|
|  | ET5471 | |
| | ET5475 | |
| | ET5476 | |

| Model | | ET5470 | ET5471 | ET5475 | ET5476 |
|---|---|---|---|---|---|
| Rated Input | Power | 80W | | 150W | |
| | Input voltage | 0-80V | 0-150V | 0-150V | 0-300V |
| | Input current | 0-20A | | 0-20A | 0-10A |
| Constant voltage Mode | Range | 1~80.00V | 1~150.0V | 1~150.0V | 1~300.0V |
| | Resolution | 10mV | | 100mV | |
| | Accuracy | ±(0.2% RD +0.2%FS) | | | |
| Constant Current Mode | Range | 0~20.00A | | | 0~10.00A |
| | Resolution | 10mA | | | |
| | Accuracy | ±(0.2%RD+0.2%FS) | | | |
| Measurement Range | | | | | |
| Voltage Readback Value | Range | 0~80.00V | 0~150.00V | 0~150.00V | 0~300.0V |
| | Resolution | 10mV | | | 100mV |
| | Accuracy | ±(0.2% RD +0.2%FS) | | | |
| Current Readback Value | Range | 0~20.00A | | | 0~10.00A |
| | Resolution | 10mA | | | |
| | Accuracy | ±(0.2% RD +0.2%FS) | | | |
| Protection Range | | | | | |
| Overvoltage protection | | ＞82V cut off input | ＞155V cut off input | | ＞310V cut off input |

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| | | | |
|---|---|---|---|
| Overcurrent protection | ＞16A cut off input | ＞21A cut off input | ＞11A cut off input |
| Over power protection | 85W | 155W | |
| Over Temperature protection | 85℃ | | |

ETP3000A Series Single Channel DC Stabilized Power Supply

ETP3000A Series Single Channel DC Stabilized Power Supply

| Model / Index | ETP 1503A | ETP 1506A | ETP 3003A | ETP 3005A | ETP 3010A | ETP 6003A | ETP 6005A |
|---|---|---|---|---|---|---|---|
| Output voltage | 0~15V | 0~15V | 0~30V | 0~30V | 0~30V | 0~60V | 0~60V |
| Output current | 0~3A | 0~6A | 0~3A | 0~5A | 0~10A | 0~3A | 0~5A |
| Stabilized Voltage status | Voltage stability：≤0.1%±3mV; Load stability：≤0.1%±3mA | | | | | | |
| Stabilized Current status | Current stability：≤0.1%±3mV Load stability：≤0.1%±3mA | | | | | | |
| Display accuracy | Voltage：0.5%±3readings Current：0.5%±3 readings | | | | | | |
| Ripple and noise | VPP≤1% | | | | | | |
| Display Resolution | Voltage：max 10mV; Current：Max 1mA; Power：Max 10mW | | | | | | |
| Display method | 4 digits red LED display, 0.40 inches | | | | | | |
| Power supply | AC 220V±10% /50Hz or AC 110V±10% /60Hz(if 110V, users need to talk to factory in advance) | | | | | | |
| Operation environment | Indoor，attitude：<=2000m，temperature：5~40℃，humidity：10~85%RH | | | | | | |
| Storage environment | Temperature：-20~80℃，humidity：<=80%RH | | | | | | |

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| | |
|---|---|
| Dimension | 190mm* 70mm* 130mm （L*W*H） |
| Weight | Net weight 1.1kg |
| Fuse specification | 3A |

ETP6000B Series channel DC Stabilized Power Supply

| | | |
|---|---|---|
| ETP6000B Series channel DC Stabilized Power Supply  | | |

| Index<br>Model | ETP<br>1506B | ETP<br>1520B | ETP<br>3005B | ETP<br>3010B | ETP<br>6003B | ETP<br>6005B | ETP<br>10003B | ETP<br>15002B |
|---|---|---|---|---|---|---|---|---|
| Output voltage | 0~15V | 0~15V | 0~30V | 0~30V | 0~60V | 0~60V | 0~100V | 0~150V |
| Output current | 0~6A | 0~20A | 0~5A | 0~10A | 0~3A | 0~5A | 0~3A | 0~2A |
| Stabilized Voltage status | Voltage stability：≤0.1%±3mV; Load stability：≤0.1%±3mA | | | | | | | |
| Stabilized Current status | Current stability：≤0.1%±3mV Load stability：≤0.1%±3mA | | | | | | | |
| Display accuracy | Voltage：0.5%±3readings Current：0.5%±3 readings | | | | | | | |
| Ripple and noise | VPP≤1% | | | | | | | |
| Display Resolution | Voltage：max 10mV; Current：Max 1mA; Power：Max 10mW | | | | | | | |
| Display method | red LED display, 0.56 inches | | | | | | | |
| Power supply | AC 220V±10% /50Hz or AC 110V±10% /60Hz(if 110V, users need to talk to factory in advance) | | | | | | | |
| Operation environment | Indoor，attitude：<=2000m，temperature：5~40℃，humidity：10~85%RH | | | | | | | |
| Storage environment | Temperature：-20~80℃，humidity：<=80%RH | | | | | | | |

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| | |
|---|---|
| Dimension | 190mm* 115mm* 150mm （L*W*H） |
| Weight | Net weight : 1.3kg |
| Fuse specification | 3A |

## ETP-H Series DC regulated power supply

| Indicators \ Models | | ETP3030H | ETP3050H | ETP30100H | ETP6030H | ETP6050H | ETP10030H |
|---|---|---|---|---|---|---|---|
| Max Output Power | | 195W | 315W | 615W | 375W | 615W | 615W |
| Number of Channels | | 3 (CH1 and CH2 are adjustable, with CH3 featuring a fixed output of 5V/3A） | | | | | |
| DC Output (0~40℃) | Output Voltage (rated value) | 0~30V | 0~30V | 0~30V | 0~60V | 0~60V | 0~100V |
| | Output Current (rated value) | 0~3A | 0~5A | 0~10A | 0~3A | 0~5A | 0~3A |
| | Fixed Output of 5V/3A | Output Accuracy: ≤0.1%<br>Load Regulation: ≤1%<br>Ripple and Noise: ≤1%<br>(Note: Fixed output parameters have been listed; the following parameters apply to adjustable settings.) | | | | | |
| CV State(±Output Percentage ± Number of Words): | | Voltage Stability: ≤0.1%FS±3 Load Stability: ≤0.1%FS±3 | | | | | |
| CC State (±Output Percentage ± Number of Words) | | Current Stability: ≤0.1%FS±3 Load Stability: ≤0.1%FS±3 | | | | | |
| Display Accuracy (±Output Percentage±Number of Words) | | Voltage: 0.5%FS±3 Current: 0.5%FS±3 | | | | | |
| Ripple and Noise | | VPP≤0.5%FS | | | | | |
| Display Resolution | | Voltage: 10mV Current: 1mA | | | | | |
| Display Method | | 4-digit red LED digital tube, 0.56 inches | | | | | |
| Power Input | | AC 220V±10% /50Hz or AC 110V±10% /60Hz (Switch) | | | | | |

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| | |
|---|---|
| Operating Environment | Indoors where altitude: <=2000m, temperature: 0~40℃ and humidity: 10~80%RH |
| Storage Environment | Temperature: -20~80℃, humidity: <=70%RH |
| Dimensions | 300mm* 265mm* 150mm (L*W*H) |
| Product Weight | Net Weight: 3.6kg |

ETP-S series multi-channel DC regulated power supply

## Dual channel DC Power Supply - Quick Selection table:

| Model parameters | ETP2303S | ETP2305S | ETP23010S | ETP2605S | ETP21003S | ETP23020S |
|---|---|---|---|---|---|---|
| Parameter Specifications | Power: 100W<br>CH1 Adjustable: 30V/3A<br>CH2 Fixed: 5V/2A | Power: 160W<br>CH1 Adjustable: 30V/5A<br>CH2 Fixed: 5V/2A | Power: 310W<br>CH1 Adjustable: 30V/10A<br>CH2 Fixed: 5V/2A | Power: 310W<br>CH1 Adjustable: 60V/5A<br>CH2 Fixed: 5V/2A | Power: 310W<br>CH1 Adjustable: 100V/3A<br>CH2 Fixed: 5V/2A | Power: 610W<br>CH1 Adjustable: 30V/20A<br>CH2 Fixed: 5V/2A |

## Dual channel DC power supply - Quick selection sheet:

| Model parameters | ETP22030S | ETP26010S | ETP23030S | ETP26015S | ETP29010S |
|---|---|---|---|---|---|
| Parameter | Power: 610W | Power: 610W | Power: 910W | Power: 910W | Power: 910W |

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| | | | | | |
|---|---|---|---|---|---|
| Specifications | CH1 Adjustable: 20V/30A<br>CH2 Fixed: 5V/2A | CH1 Adjustable: 60V/10A<br>CH2 Fixed: 5V/2A | CH1 Adjustable: 30V/30A<br>CH2 Fixed: 5V/2A | CH1 Adjustable: 60V/15A<br>CH2 Fixed: 5V/2A | CH1 Adjustable: 90V/10A<br>CH2 Fixed: 5V/2A |

## Three channel DC power supply - Quick selection table:

| Model parameters | ETP3303S | ETP3305S | ETP33010S | ETP3605S | ETP31003S |
|---|---|---|---|---|---|
| Parameter Specifications | Power: 190W<br>CH1 Adjustable: 30V/3A<br>CH2 Adjustable: 30V/3A<br>CH3 Fixed: 5V/2A | Power: 310W<br>CH1 Adjustable: 30V/5A<br>CH2 Adjustable: 30V/5A<br>CH3 Fixed: 5V/2A | Power: 610W<br>CH1 Adjustable: 30V/10A<br>CH2 Adjustable: 30V/10A<br>CH3 Fixed: 5V/2A | Power: 610W<br>CH1 Adjustable: 60V/5A<br>CH2 Adjustable: 60V/5A<br>CH3 Fixed: 5V/2A | Power: 610W<br>CH1 Adjustable: 100V/3A<br>CH2 Adjustable: 100V/3A<br>CH3 Fixed: 5V/2A |

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# Detailed technical specifications

| | |
|---|---|
| Number of Channels | Dual channels: CH1 channel continuously adjustable, CH2 channel fixed output;<br>Three-channel: CH1, CH2 channel continuously adjustable, CH3 channel fixed output; |
| Fixed output channel | Output accuracy: ≤0.1%<br>Load adjustment rate: ≤1%<br>Ripple and noise: ≤1% |
| Adjustable output channel | |
| Constant voltage output | Voltage adjustment rate ≤0.1%Umax+5mV |
| | Load adjustment rate ≤0.1%Umax+5mV |
| | Voltage setting accuracy: 0.03% + 10mV (25±5℃) |
| | Set resolution 1mV<br>(Note: where 90V and 100V voltage, the minimum set resolution is 10mV) |
| | Ripple noise: ≤10mVrms<br>Ripple noise: ≤20mVrms |
| Constant current output | Power adjustment rate ≤0.2%+3mA |
| | Load adjustment rate ≤0.2%+5mA |
| | Current setting accuracy: 0.03% Imax+ 10mA (25±5℃) |
| | Set resolution: 1mA |
| | Ripple noise: ≤10mArms<br>Ripple noise: ≤20mArms |
| Display accuracy (± output percentage ± words) | Voltage: 0.02% Umax+5mV<br>Current: 0.05%Imax +10mA |
| Display resolution | Voltage: 1mV; Current: 1mA |
| Protection | Overload protection, polarity reverse protection, over voltage protection, over current protection, over temperature protection |
| Power input | AC 220V±10% /50Hz or AC 110V±10% /60Hz (toggle switch) |
| Communication interface | USB,RS232 |
| Operating environment | Indoor use, altitude: <=2000m, temperature: 0~40℃, humidity: 10~80%RH |
| Storage environment | Temperature: -20~80℃, humidity: <=70%RH |
| Overall dimensions | 356mm* 210mm* 100mm (length * width * height) |

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ET51X Series DC Lower Resistance Tester


| Model | ET510 | ET511 | ET512 | ET513 |
|---|---|---|---|---|
| Measurement Range | 0~ 5kΩ | 0~ 20kΩ | 0~ 200kΩ | 0~ 2MΩ |
| Basic Accuracy | 0.1% Reading+ 3 digits (Minimum resolution: 10uΩ) | | | |
| Maximum Test Current | 100mA | | | |
| Display Mode | Direct reading/percentage | | | |
| Test Speed | Slow: 8 times/s, Fast: 15times/s | | | |
| Sorting Function | Standard | | | |
| Test Method | Four-wire | | | |
| Trigger Mode | Internal/Manual/External | | | |
| Open Circuit Voltage | <5V | | | |
| Range Mode | Auto/Locked | | | |
| External Interface | Standard: RS232 interface, HANDLER interface, Optional: RS485 interface | | | |
| Operating Environment | Temperature: 5℃~40℃, Humidity: <80%RH | | | |
| Dimensions (L * W* H ) | 230 * 30 * 122 (unit： mm) | | | |

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| | |
|---|---|
| Power Consumption | <15VA |

| Range | 20mΩ | 200mΩ | 2Ω | 20Ω | 200Ω | 2kΩ | 5kΩ | 20kΩ | 200kΩ | 2MΩ |
|---|---|---|---|---|---|---|---|---|---|---|
| Test Current | 100mA | 100mA | 10mA | 1mA | 100uA | 100uA | 100uA | 100uA | 10uA | 1uA |
| Resolution | 10uΩ | 10uΩ | 100 uΩ | 1mΩ | 10 mΩ | 100 mΩ | 1Ω | 1Ω | 10Ω | 100Ω |

YET215x Series Earth Resistance Tester

YET215x Series Earth Resistance Tester


| Range | YTE2150 | YTE2151 | Resolution rate |
|---|---|---|---|
| 20Ω | ±2%rdg±5dgt | ±2%rdg±5dgt | 0.01Ω |
| 200Ω | ±2%rdg±3dgt | ±2%rdg±3dgt | 0.1Ω |
| 2000Ω | 无 | ±2%rdg±3dgt | 1Ω |

## 2.AC Voltage

| Range | YTE2150/YTE2151 | Resolution | Input Impedance | Frequency |
|---|---|---|---|---|
| 20V | ±2%rdg±5dgt | 0.01V | 1MΩ | 50~1000Hz |
| 200V | | 0.1V | | |
| 600V | | 1V | | |

YTE216X Series Insulation

| YTE216X Series Insulation | | |
|---|---|---|
|  | | |

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# Performance index

| MODEL | YTE2160 | YTE2161 |
|---|---|---|
| Rated voltage | 100V、200V、500V、1000V | 100V、200V、500V、1000V、2500V |
| Input voltage accuracy | ±10%±10V | ±10%±10V |
| Insolation resistance range | 0-10GΩ | 0-100GΩ |
| Measurement function | DCV、AVC、Small resistance、insulation resistance | |
| Absorption (dar) testing | √ | |
| Polarization index(PI)testing | √ | |
| Short circuit current | ≤2mA | |
| DCV input impedance | 10MΩ | |
| ACV input impedance | 5MΩ | |
| Power supply | 3.7V 1500mAH Lithium-ion battery | |
| Size | 155mm*105mm*45mm | |
| Data storage | 100 sets | |
| Voltage detection | When the battery voltage is below 3.2 V, the battery voltage is low and needs to be charged in a timely manner. | |

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# Insolation resistance testing index

| Range | | Resolution | Basic errors |
|---|---|---|---|
| Output voltage DC100V±10% | 0-5MΩ | 0.01M Ω | ±3%rdg±5dgt |
| | 5MΩ-20MΩ | 0.1M | |
| | 20MΩ-50MΩ | 0.1M | |
| | 50MΩ-100MΩ | 0.1M | |
| Output voltage DC200V±10% | 0-10MΩ | 0.01M Ω | |
| | 10MΩ-50MΩ | 0.1M | |
| | 50MΩ-100MΩ | 0.1M | |
| | 100MΩ-200MΩ | 0.1M | |
| Output voltage DC500V±10% | 0-20MΩ | 0.01M Ω | |
| | 20MΩ-100MΩ | 0.1M | |
| | 100MΩ-200MΩ | 0.1M | |
| | 200MΩ-500MΩ | 0.1M | |
| Output voltage DC1000V±10% | 0-200MΩ | 0.1M Ω | ±3%rdg±5dgt |
| | 200MΩ-500MΩ | 1M | ±3%rdg±5dgt |
| | 500MΩ-5GΩ | 0.01G | ±3%rdg±5dgt |
| | 5G-10G | 0.01G | ±5%rdg±3dgt |
| Output voltage DC2500V±10% | 0-500MΩ | 0.1M Ω | ±3%rdg±5dgt |
| | 500MΩ-1GΩ | 1M | ±3%rdg±5dgt |
| | 1GΩ-10GΩ | 0.01G | ±5%rdg±3dgt |
| | 10G-100G | 0.1G | ±10%rdg±3dgt |

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| | | | | |
|---|---|---|---|---|
| ET3916 multi channel **Temperature Detector**  | ET3916-08 | | ET3916-08T | |
| | ET3916-16 | | ET3916-16T | |
| | ET3916-24 | | ET3916-24T | |
| | ET3916-32 | | ET3916-32T | |
| | ET3916-48 | | ET3916-48T | |
| | **ET3916-64** | | **ET3916-64T** | |

With the characteristic of simple content, easy operation, large temperature data storag, ET3916 multi channel data recorder supports thermocouple input, such as J、K、T、E、S、N、B、R type, to reach the requirement of production line, laboratory and measurement development department.

Its widely used in Lighting appliances, power tools, household appliances, electric motors, electric heating appliances, pharmaceutical, petroleum, chemical, metallurgy, electric power and other industries and scientific research units and other fields of production enterprises, laboratories, quality supervision departments 。

## Main Features:

- Adopt 5 inches industrial true-color display LCD display screen;
- Adopt high speed and high performance 32 bits ARM microprocessor, fast response speed; It supports multi channel signals' acquisition, recording, display, alarm;
- Each measurement module supports measurement of 8 channels, the max to 64 channels; Modules quantity can be equipped according to customers' requirement.
- The data can be displayed in three modes: numerical values, curves and bar charts. The numerical interface supports the values of 4/8/16/32 channels to be displayed in same time, and its automatic page-turning, the time of page-turning can be selected by multi-levels.
- 6 digits display, display range can reach -999.99~9999.99;
- Equipped GB2312 Chinese Character Library with full input method;

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- Each channel supports parameter setting separately( including upper/ lower alarm, temperature calibration, display unit) and arbitrary naming;
- When the measured temperature excesses upper/ lower alarm, it will alarm (optional: relay alarm output)
- Real-time clock: adopt hardware real-time clock, lithium battery power; the max time error is ±1 min/year
- Each channel is isolated, disturb of high frequency and isolated voltage peak value reach 400V
- Supports thermocouple measurement: J、K、T、E、S、N、B、R
- The 8GB FLASH memory chip is used to store historical data, and the data can be exported through the U disk;
- Measurement speed for option: slow speed: 1 s/channel, medium speed: 0.5 s/channel;
- USB-HOST and USB-DEVICE communication port; USB-HOST to export the historical data through U-Disk; USB-DEVICE to communicate with computer;

| MODEL | ET3916 Series | ET3916T Series |
|---|---|---|
| | ET3916-08、ET3916-16<br>ET3916-24、ET3916-32<br>ET3916-48、ET3916-64 | ET3916-08T、ET3916-16T、ET3916-24T<br>ET3916-32T、ET3916-48T、ET3916-64T |
| Channels | 8 channels ~ 64 channels | |
| Measurement Range | 60mV | |
| Accuracy | 0.05%FS | 0.02%FS |
| Temperature Display Resolution | 0.1℃ | 0.01℃ |
| Supported Thermocouple Type | K、J、T、E、S、N、B、R (please check thermocouple sheet for details indicators） | |
| Cold Compensation Accuracy | ±0.5℃ | |
| Measuring Speed | Slow speed: 1 s/channel, medium speed: 0.5 s/channel | |
| Display Mode | numerical , curve, bar charts | |
| Calibration | isolated correction factor of each channel | |
| Alarm | Isolated alarm setting(upper upper limit, upper limit, lower limit, lower lower limit) | |
| Data Record Interval | 1s | |
| Data Storage | 8G | |

## Thermocouple sheet ：

| Themocouple type | Temperature Range | ET3916 Series | | ET3916-T Series | | N/M |
|---|---|---|---|---|---|---|
| | | Accuracy | Resolution | Accuracy | Resolution | |

| | | | rate | | rate | |
|---|---|---|---|---|---|---|
| K | -200~1372℃ | ±0.8℃ | 0.1℃ | ±0.3℃ | 0.01℃ | Exclude the error of thermocouple an cold junction compensation |
| J | -200~1100℃ | ±0.7℃ | | ±0.25℃ | | |
| T | -100~400℃ | ±0.5℃ | | ±0.2℃ | | |
| E | -50~830℃ | ±0.5℃ | | ±0.2℃ | | |
| S | -50~1760℃ | ±2℃ | | ±0.8℃ | | |
| N | -200~1300℃ | ±1℃ | | ±0.4℃ | | |
| B | 600~1820℃ | ±2.4℃ | | ±0.95℃ | | |
| R | -50~1768℃ | ±2.1℃ | | ±0.82℃ | | |

## General Information:

- Power Voltage:220V.AC±10%，or110V.AC±10%，45~65Hz；
- Display: 5 inches industrial true-color display, 854×480
- Working Temperature:0℃~40℃
- Storage Temperature:-10℃~70℃
- Relative Humidity:＜80%
- Communication port: USB Device、USB Host(standard)；
  RS232、rely alarm output(optional)；
- Dimension:260mm×300mm×100mm（L×W×H）；