

Protection relay test set K68 series



Feature

- Auto/Manual test on all its five test modules: DC Test, AC Test, Distance Test, Harmonic Test, Frequency protection.
- Phase, frequency and amplitude are independently and continuously adjustable.
- All-in-One Design: with built-in Windows CE System & rotary encoder & panel keyboard & 6.4 inches TFT LCD (RJ45/USB for update & upload).
- High power: 3X450VA at 0...35A for Medium-Voltage level test.
- High Precision: 0.05% reading+0.02% range typical at 0-35A & 0.07% reading+0.03% range guaranteed at 0-130V.
- Reliability: Complete self-protection & alarm indication against wrong-wiring, open/short circuit, overheat & overload, unexpected import of external input source etc.
- Field Testing Convenience: the equipment can be put Vertically or Horizontally for field testing.

Features

1. High power: 3 x 0...35A with a power of 450VA for Medium/Low Voltage test.
2. Phase, frequency and amplitude are independently and continuously adjustable.
3. The maximum output of DC voltage for every phase:300V
4. High Precision: 0.14% reading+0.06% range guaranteed at 0-35A & 0.14% reading+0.06% range guaranteed at 0-300V.
5. Auto/Manual Test on all its five modules: DC Test, AC Test, Distance Test, Harmonic Test, Frequency protection.
6. Reliability: Self-protection by stop output plus with light flashing/sound alarming in case of wrong-wiring, open/short-circuit, overheat & overload.
7. On-site Testing Convenience: the equipment can be put vertically or horizontally when on-site testing.
8. The tester could upgrade by USB and can make speed data communication between computer On 100M-T Network -card.
9. Internal design is of architectural style framework and of shock & impact resistance external box made of high intensity aluminum alloy enables the equipment subject to rigid vibration.



| Model | K68 | K68i |
|--------------------------------|--------|--------|
| Factor | | |
| AC Current I | 3*35A | 3*35A |
| AC Voltage U | 4*130V | 4*300V |
| DC Current I | 3*20A | 3*20A |
| DC Voltage U | 1*150V | 1*150V |
| DC Voltage Ubc | 1*300V | 1*300V |
| Aux. DC (DC Module Setting) | 0~300V | 0~300V |
| Aux. DC (Interface Setting) | 0~260V | 0~300V |
| Binary Input 8 pairs | ● | ● |
| Binary Output 4 pairs | ● | ● |

Specifications

| Voltage generators (overload and short protection) | | |
|--|--|---|
| Setting | 4-phase AC (L-N) | 4x 0 ... 300 V |
| Range | 1-phase AC (L-L) | 1 x 0 ... 600 V |
| Power | 4-phase AC (L-N) | 4 x 110VA, at 300V |
| | 1-phase AC (L-L) | 1 x 220VA, at 600 V |
| Accuracy | <0.14% reading + 0.06% range guaranteed at 0-300V; <0.04% reading + 0.01% range typical at 0-300V | |
| Rise/down time | <120μs | |
| Resolution | 1mV | |
| Current generators (O/C protection) | | |
| Setting | 3-phase AC (L-N) | 3 x 0 ... 35A |
| Range | 1-phase AC (3L-N) | 1 x 0 ... 105A |
| Power | 3-phase AC (L-N) | 3 x300 VA at 35A. |
| | 1-phase AC (3L-N) | 1 x 900VA at 105A |
| Accuracy | <0.14% reading + 0.06% range guaranteed at 0-35A; <0.05% reading + 0.02% range typical at 0-35A; | |
| Rise/down time | <50μs | |
| Resolution | 1mA | |
| Generators, general | | |
| Voltage and Current Synchronism | $\leq 10 \mu S$ | |
| Frequency | Range | 0 ... 1000 Hz |
| | Accuracy / drift | Error < 0.001Hz at 10 ... 450Hz, Error < 0.01Hz at 450 ... 1000Hz, |
| | Harmonic superimpose | 2-9 orders |
| | Resolution | 0.001Hz |
| Phase | Range | 0° ... 360° |
| | Accuracy / drift | Error < 0.2 ° |
| | Resolution | 0.001° |
| Timer | Range | Infinite |
| | Accuracy / drift | Error<0.1ms |

| DC generators (over-load protection) | |
|--------------------------------------|---|
| Voltage ranges | 0 ... 300V/150VA |
| Current ranges | 0 ... 20A (60A on 3-phase-paralleling)/300VA |
| Accuracy | <0.1% reading + 0.1% range guaranteed at 0...300V; <0.1% reading + 0.1% range guaranteed at 0...20A; |
| Resolution | 1mA; 1 mV |
| Aux DC supply | |
| Ranges | 0~300V/0.5A |
| Accuracy | Error<0.5% |
| Binary inputs | |
| Number | 8 pairs (extendible to 64channel) |
| Resolution | 0.1ms |
| Time range | Infinite |
| Ranges | 10V ... 250V |
| Binary outputs | |
| Number | 4 Pairs |
| Ranges | DC-250V/3,AC-250V/3A |
| Power supply | |
| Nominal input voltage | 220V±10% VAC, 1-phase, Max.15A |
| | Available to provide customized power supply as required |
| Power | 1000VA |
| Nominal frequency | 50/60±10% Hz |
| Environmental conditions | |
| Working temperature | -5°C... 55 °C |
| Storage temperature | -20°C... 75 °C |
| Humidity range | 5 ... 90 %, non-condensing |
| Box | Alloy aluminum |
| Weight | 24KG |
| Dimensions | 360 (D) ×140 (W) ×460 (H) mm |
| Interface | RJ 45, USB,RS232, PS/2,VGA |

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