PCZ1000A is an AC electronic load that enables you to perform load simulation for various inverters and transformers. In addition to the resistive loads generally used in tests, it is capable of simulating capacitor-input rectifier loads. The instrument supports input up to 1000 W and is equipped with 3 operation modes - Constant Current, Constant Resistance, and Constant Power. Current waveform resemble to sine wave can be output constantly without effect by voltage waveform at each mode. Moreover, the instrument is equipped with Crest Factor function that is suitable for simulating current load test for switching power supply. This instrument provides improved operationality through CPU control and enables external control and read-back via RS232C.

- Maximum input load power: 1000 W
- Input voltage range: 14 V to 280 V (rms)
- Input current range: 0 to 10 A (rms)
- Input frequency range: 45 Hz to 65 Hz

Constant Current/Constant Resistance/Constant Power mode provided. Useful Crest Factor function is equipped.

For load test for various inverters such as inverter for Fuel Cell power generation, UPS inverter, inverter for photovoltaic generation, and transformer
### Specifications

#### Input rating (AC)
- **Operation voltage**: 14 Vrms to 280 Vrms
- **Maximum current**: 10 Arms
- **Maximum power**: 1000 W
- **Frequency**: 45 Hz to 65 Hz
- **Minimum input operation start voltage**: 3 Vpeak
- **Setting range**: 0 Arms to 10 Arms
- **Setting accuracy**: Within a (1 % of set + 0.1 A)
- **Setting resolution**: 10 mA Arms
- **Stability**: Line variations *7* Within 10 mA Arms
- **Input-voltage variations**: Within 100 mA Arms
- **Temperature coefficient** (at the rated current): -200 ppm/°C (typical)

#### Constant-current (CC) mode *5*
- **Setting range**: H range (Full current at 10 V) 1.0 to 1 kΩ
- **Setting resolution**: L range (Full current at 100 V) 10.0 to 10 kΩ
- **Setting accuracy**: (in current terms) *9*, *11* Within a (2 % of set + 0.2 A)
- **Stability**: Input-voltage variations *12* Within a 10 %

#### Constant-resistance (CR) mode *9*
- **Setting range**: H range (Full current at 10 V) 1 mS to 10 kΩ
- **Setting accuracy**: L range (Full current at 100 V) 0.1 mS to 10 kΩ

#### Constant-power (CP) mode *13*
- **Setting range**: 50 W to 1000 W
- **Setting accuracy**: Within a 5 % of set
- **Setting resolution**: 1 W
- **Input-voltage variations**: Within ± 1 % of FS
- **Resolution**: 0.1

#### Crest-factor (C.F) function *16*
- **Setting range**: 1.4 to 4.0
- **Setting resolution**: 0.1 S to 0.1 mS *10

#### Master-slave parallel operation
- **Up to 5 units including master unit

#### Tracking function
- **Same current as master unit passes to slave unit

#### Ammeter (RMS display mode)
- **Number of display digits (full scale)**: 10.00 Arms
- **Accuracy**: Within ± 1 % of FS

#### Voltmeter
- **Number of display digits (full scale)**: 40.0 Apeak
- **Accuracy**: Within ± 2 % of FS
- **Accuracy**: Within ± 1 % of FS

#### Peak overcurrent protection (POCP) *18*
- **Approx. 48 Apeak

#### Overcurrent protection (OPC) *19*
- **Approx. 11.5 Arms

#### Overvoltage protection (OVP) *18*
- **Approx. 470 Vpeak

#### Overpower protection (OPP)
- **Approx. 1150 W

#### Overheat protection (OHP) *20*
- **Detects the internal-heat-sink surface temperature to turn off the LOAD key.

#### Insulation resistance
- **Primary side to case**: 1500 VAc for 1 minute
- **Primary side to load input terminals**: 1500 VAc for 1 minute
- **Load input terminals to case**: 500 VAc for 1 minute

#### Temperature and humidity ranges
- **Operating temperature range**: 0 °C to 40 °C (32 °F to 104 °F)
- **Operating humidity range**: 20 %r.h to 85 %r.h (no condensation)
- **Storage temperature range**: -25 °C to 70 °C (-13 °F to 158 °F)
- **Storage humidity range**: 90 %r.h and below (no condensation)

#### Options
- **Rack mount bracket**: KRB3 (Inch size, EIA standard compatible rack)
- **Parallel operation cable**: PC01-PCZ1000A

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**Distributor:**
- Rack mount bracket
- KRB3 (Inch size, EIA standard compatible rack)
- KRB150 (Metric size, JIS standard compatible rack)
- Parallel operation cable

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