

OMICRON CPC100 - Multi functional Primary test Kit

Multi-functional primary test system for substation commissioning and maintenance. (Standard Package).



Generator / Outputs

Current outputs

Range	Amplitude	t _{mex} 1	V _{max} ²	Power _{max} ²	f
800 A AC3	0 800 A	25 s	6.0 V	4800 VA	15 Hz 400 Hz
	0 400 A	8 min.	6.4 V	2560 VA	15 Hz 400 Hz
	0 200 A	> 2 h	6.5 V	1300 VA	15 Hz 400 Hz
6 A AC10	0 6 A	> 2 h	55 V	330 VA	15 Hz 400 Hz
3 A AC10	0 3 A	> 2 h	110 V	330 VA	15 Hz 400 Hz
400 A DC	0 400 A	2 min.	6.5 V	2600 VA	DC
	0 300 A	3 min.	6.5 V	1950 VA	DC
	0 200 A	> 2 h	6.5 V	1300 VA	DC
6 A DC4, 10	0 6 A	> 2 h	60 V	360 VA	DC
2000 A AC3	with an optio	nal curre	nt boost	ter (CP CB2)	

Voltage outputs

Range	Amplitude ⁵	t _{max}	l _{max}	Power _{max}	f f
2 kV AC ³	0 2 kV	1 min.	1.25 A	2500 VA	15 Hz 400 Hz
	0 2 kV	> 2 h	0.5 A	1000 VA	15 Hz 400 Hz
1 kV AC ³	0 1 kV	1 min.	2.5 A	2500 VA	15 Hz 400 Hz
	0 1 kV	> 2 h	1.0 A	1000 VA	15 Hz 400 Hz
500 V AC ³	0 500 V	1 min.	5.0 A	2500 VA	15 Hz 400 Hz
	0 500 V	> 2 h	2.0 A	1000 VA	15 Hz 400 Hz
130 V AC10	0 130 V	> 2 h	3.0 A	390 VA	15 Hz 400 Hz

Using the CPC 100, electrical tests on various assets can be performed:

Current transformers

Voltage transformers

Power transformers

Power lines

High-voltage (HV) cables

Grounding systems

Rotating machines

GIS systems

Switchgear and circuit breakers

IEC 61850 installations

Protection relays

Address: Barwa Village, Building 6, Shop 9



OMICRON CMC356 - The Universal Relay Test Set and commissioning tool



The Universal Relay Test Set and Commissioning Tool (Protection package + Advance Distance and Advanced Differential Test modules)

- Quick CMC
- State Sequencer
- Ramping
- Transplay
- Harmonics
- Binary I/O monitor
- CB Simulator
- Polarity Checker
- Aux DC Configuration
- Pulse Ramping
- Over current

- Over current Char. Grabber
- Distance
- Differential
- Auto reclosure
- Advanced Distance
- Advanced Differential.

OMICRON CT Analyzer - Current Transformer testing



Current transformer testing, calibration and assessment

- >> Ratio and phase accuracy
- >> Winding resistance
- >> Excitation characteristics (knee points)
- >> Composite error (ALF, ALFi, FS, FSi, V)
- >> Burden impedance
- >> Transient CT classes and parameters (TPS, TPX, TPY and TPZ type CTs)
- >> Transient dimensioning factor (Ktd)
- >> If missing/unknown: CT type, class, ratio, knee point, power factor, nominal burden, operating burden, primary and secondary winding resistance
- >> Remanence and residual magnetism
- >> Immediate good/bad evaluation

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OMICRON TESTRANO 600 - Three Phase test system for distribution and power transformer

Three-phase test system for comprehensive power and distribution transformer testing - Standard package



TESTRANO 600 is the world's first portable, three-phase test system which supports all common electrical tests on single- and three-phase power and distribution transformers.

- PTM Standard software license, including manual control mode and report generator
- Quick test
- Transformer Turns ratio (TTR) / Exciting Current
- DC Winding resistance.
- Demagnetization
- Short Circuit impedance / Leakage Reactance
- Frequency response of Stray Losses (FRSL)
 - Power losses at low voltage.

Your benefits

- > True three-phase power transformer test set
- Powerful device with 3 x 33 A DC or 400 V AC
- Reduced wiring effort as same wiring can be used for different tests
- > Three times faster testing
- Automatic tap changer control and measurement, no accessory required
- > Fast and reliable demagnetization of transformer's core

OMICRON CIBANO 500 – Test kit for MV and HV breaker

3-in-1 test system for medium- and high-voltage circuit breakers



OMICRON's CIBANO 500 is the world's first circuit breaker test system to combine a multi-channel timing and travel analyzer a high-accuracy digital micro-ohm ($\mu\Omega$) meter, and a coil and motor supply within one device.



It combines:

- >> a multi-channel timing and travel analyzer
- >> a high-accuracy digital micro-ohm $(\mu\Omega)$ meter, and a powerful and adjustable coil and motor supply with 2.4 kW.

The lightweight test system can perform all common electrical tests on

- >> medium-voltage circuit breakers and
- >> high-voltage circuit breakers

Your benefits

- Easy-to-use 3-in-1 system: digital micro-ohm (μΩ) meter, AC/DC supply, and timing and travel analyzer
- Versatile system for medium- and high-voltage circuit breakers (including GIS)
- Lightweight test system (20 kg / 44 lbs) for easy transportation to test site

Common Tests:

- Timing
- Static contact resistance
- Motion / Contact travel
- Dynamic contact resistance
- Coil / Motor current analysis
- Under voltage condition
- Minimum Pick up

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HILLSTONE HAC415-200 – THREE PHASE 415V, 50 Hz, 200 kW AC Resistive Load Bank





The Hillstone HAC series load banks offer a low-cost solution to on-site AC testing of generators and UPS systems. Load step $-1~\mathrm{kW}$

Load Bank Type Ref			•	Power at 400V	•	Power at 380V	Amps at 380V
HAC415-200	415V	200.0KW	277.8A	183.7KW	266.2A	168.1KW	243.6A

HILLSTONE HACV415-500 – THREE PHASE 415V, 50 Hz, 500 kW AC Resistive Load Bank

The Hillstone HACA - series of automatic load banks offer a dual usage solution to on-site generator maintenance and operation issues, such as running the genset on low load which causes wet stacking of the diesel engine.

HACV415 Performance Table:

Load Bank	Max.	Power	Amps at	Power	Amps at	Power	Amps at
Type Ref	Volts	at 415V	415V	at 400V	400V	at 380V	380V
HACV415-500	415V	500KW	694A	459KW	665A	420KW	608A

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<u>HILLSTONE HAC230-6RM - SERVER SIMULATOR LOAD BANK, SINGLE PHASE / THREE PHASE, 50 Hz , 6.6 kW AC Load Bank</u>

Availability in stock: 500 Nos.



Three Phase Ratings							
	Power	Amps	Switch steps				
Step 1	3300W	4.8A	1-1 2-1 3-1				
Cton 3	CCOOM	0.64	1-1	2-1	3-1		
Step 2	6600W	9.6A	1-2	2-2	3-2		





	Panel Socket					
Lood 1	1-1	4.8A	1100W	C20		
Load 1	1-2	4.8A	4.8A 1100W			
	2-1	4.8A	1100W	C20		
Load 2	2-2	4.8A	1100W	C20		
Lood 2	3-1	4.8A	1100W	C20		
Load 3	3-2	4.8A	1100W	C20		
6600W						



HAC230-6RM Specification

INOLOG GIVIN OPCO	mounton
Type Ref	HAC230-6RM
Max Voltage	230 volts, single phase 50/60 hz
Full Load Rating	Nominal: 6666W - 29A - 230V single phase Nominal: 6666W - 9.6A - 400V 3 phase
	· ·
Controls	3 separate 2222W loads at 230V Each load adjustable in 2 steps of 1111W
Adjustment	6 x 1111W steps, selected via panel mounted illuminated switches
Connection	Three C20 panel mounted sockets for each independent load channel
Cooling	3 low noise, horizontal force air cooling fans, powered from the test source. Cool air intake at front, hot air exhaust at rear.
Airflow	Each fan 144 m3/hr at minimum pressure zero Pa. (Static) Total airflow 432 m3/hr
Element Type	High temperature ni-chrome tape wound mounted on mica composite card.
Dimensions & Weight	4U (176mm high x 250mm deep plus handles) 19" rack assembly. Weight 8 kgs
Construction	Zintec steel, with powder coated yellow gloss finish front panel. Enclosed tray assembly with rear grill
Operating Temperature	0 - 45°C / 0 - 113°F
Storage Temperature	0 - 80°C / 0 - 176°F
Movement	Front handles for slide in assembly to 19" racks
Optional Extras	Cables: 1phase or 3 phase

FUGUANG IDCE- 2430S (24V, 300A) DC LOAD BANK

IDCE-2430S	
Battery Nominal	Max Discharge
Voltage	Current
24 V	300 A



IDCE-2430S

Stop Point	Setting Range
Group Low Voltage	21.0 - 27.0 V
Discharge Time	0 - 99 Hour 99 Min
Discharge Capacity	0 - 9999 AH



Voltage range current range

21-30V 0-300 A
Internal current range 0-300 A
Accuracy & resolution ≤±0.5%, 0.1 A
External current range 0-600 A

Accuracy & resolution ≤±1%, 0.1 A Group voltage range 21-30 V

Accuracy & resolution ≤±0.5%, 0.1 V Power supply voltage 21-30V

Operation temperature -5 to 50° C
Storage temperature -40 to 70° C
Humidity 5% - 95% RH
Altitude below 4000 m

Working noise <60 dB

 Main tester
 628 x 223 x 372 mm

 Carrying case
 700 x 620 x 280 mm

 Weight
 18 kg (main tester only)

 Carry case
 1 x 700 x 620 x 280 mm, 15 kg

 Power cable
 2 x 3 m cables 120 mm²

250W(max)

User manual 1

Power consumption

HILLSTONE HCC60-300 DC LOAD BANK



Load Bank Type Ref	Max Volts	Amps At 20V to 40V	Amps At 40V to 60V		
HCC60-300	60V	0 – 150A	0 – 300A		

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HILLSTONE HCWM 280-840 DC LOAD BANK



Hillstone type ref	DC voltage range	20-40V	40-60V	96-130V	190-260V
HCWM280-840	60A	120A	120A	120A	60A

HILLSTONE HBN 130-350 (130V, 350A) DC LOAD BANK





Load Bank Type	e Max Volts	Available current at different test voltages					
Load Balik Typ	e iviax voits	130V	120V	110V	99V	88V	60V
HBN130-350	130V	350A	323A	296A	267A	237A	162A

FUGUNAG IDCE 60010-CT



Battery Nominal Voltage	Max Discharge Current
380 V	100 A
480 V	100 A

Stop Point	Setting Range
Group Low Voltage	0 - 600.0 V
Discharge Time	0 - 99 Hour 99 Min
Discharge Capacity	0 - 9999 AH
Cell Low Voltage	0 - 15.00 V

SPECIFICATIONS

Discharge Ranges

Voltage range current range 300-600V 0-100 A

Current measurement

Internal current range 0-100A

Accuracy & resolution ≤±0.5%, 0.1 A

External current range 0-100A

(optional current clamp)

Accuracy & resolution ≤±1%, 0.1 A

Voltage measurement

Group voltage range 0-600 V

Accuracy & resolution ≤±0.5%, 0.1 V

Cell voltage range 0-15V

Accuracy & resolution ≤±0.5%, 0.01 V

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MEGGER EZ THUMP-4 and DigiPHONE+ (LV Cable fault Locator)

The EZ-THUMP4 is a compact and lightweight, battery and AC line operated, portable cable fault location systems. They are designed for quick, effective, accurate and safe fault locating operations to greatly reduce system customer outage minutes.



B2 HVA34 - VLF Test Kit (34 kV Peak, 28 kV rms)









19.5 kg



B2 HVA68-2 - VLF Test Kit (68 kV Peak, 48 kV rms)



Features

- Output voltage 48 kV
- · Pure sinusoidal output voltage (load-independent)
- Output current 80 mA max.
- Highest test capacity of 10µF
- Unlimited and continuous duty cycle
- Cable testing according: CENELEC HD 620/621,IEEE 400.2-2004, • Easily exchangeable HV cable IEC60502-2:2014
- Programmable test sequences
- PC software "b2 Control Center" with various reporting functions included

- · Upgradable with Partial Discharge diagnostic and Tan Delta Diagnostics System (optional)
- 12kV transient protection (50 Hz)
- Dual Discharge Device (DDD®), two integrated and automatic discharge devices
- · Real time oscilloscope display of output voltage
- Breakdown voltage and load detection

- · RMS digital metering of voltage and current
- · Vacuum Bottle Test
- · Sheath Fault Locating (in combination with Earth Fault Locator) (not included)