A Handy Yet Most Complete Slim-Jaws PowerClamp™Î

Full Power Functions Plus kWHr Recording & 3~Unbalanced-Load Power For Advanced Applications!



BM350 Series Compact PowerClamp™



ERICHT PEOPLES CHOICE http://www.brymen.com



357	351	FUNCTIONS & FEATURES
•	•	Ultra-slim jaws to access tight places; 26mm conductor size
•	•	600A AC Clamp-on + Multimeter ranges
•	•	600VAC/DC input protection on all functions
•	•	AC True RMS voltage and current functions
•	•	Balanced-Load 3-phase /1-phase Power W, VA & VAR measurements
•	•	+ Dual display Power Factor (PF) & A-Lags-V Phase-Shift indication
•		Unbalanced-Load 3-phase 3-wire/4-wire Power W (with memory recall)
•		kWHr Kilo-Watt-Hour Recording function (with memory recall)
•		Back lighted LCD display
0	•	Automatic selection of DCV, ACV & ACA measurements (Auto V.A)
	•	Fast PEAK-rms Hold (65ms to 90%) for In-rush ACA & ACV readings
•	•	PC-Comm (Optical isolated PC interface capability)
•	•	Software kit for Win 95/98/ME/2000/XP/VISTA (Optional purchase)
•	•	Data HOLD
•	•	Measure line-level ACV Frequency via test leads
•	•	Measure non-invasive ACA Frequency via clamp jaws
•	•	DCV & ACV 0.1V to 600.0V
•	•	ACA 0.01A to 600A non-invasive current measurements
•	•	Ohm 0.1 Ω to 999.9 Ω
•	•	Fast Audible Continuity
•	•	Battery cover with Probe holders
•	•	Rugged Fire-retarded casing; Soft carrying pouch
•	•	Transient protection 6kV 1.2/50µs lightning surge
•	•	LVD EN61010-1 & EN61010-2-032 CAT III 600V
•	•	EMC EN61326-1:2006 (EN55011, EN61000-3-2/-3 & EN61000-4-2/-3/-4/-5/-6/-8/-11)

Small Power Jaws For Better Portability & Access To Tighter Places!

Superior Technology That Saves Costs, Size And Weight!

SMALL & ULTRA-SLIM CLAMP JAWS

FOR EASY ACCESS TO TIGHT PLACES WITH AC 600A CAPABILITY

RUGGED & DURABLE

HIGH-IMPACT FIRE-RETARDED ENCLOSURE FOR REINFORCED SAFETY & RELIABILITY

LVD CAT III 600V SAFETY

MEETS EN61010-1 & EN61010-2-032 2ND EDITION CAT III 600V

PC-COMM INTERFACE CABABILITIES

BUILT-IN OPTICAL ISOLATED DATA OUTPUT PORT, OPTIONAL PURCHASE INTERFACE KIT FOR PC CONNECTION

TRUE RMS MEASUREMENTS

FOR NON-SINUSOIDAL WAVEFORMS OF AC VOLTAGES & AC CURRENTS

0.5% DCV & ACV BASIC ACCURACY

UP TO 600 VOLTS, 0.1V RESOLUTION

DISPLAY BACKLIGHT

FOR EASY VIEWING IN THE DARK.

AutoVA™ FEATURE

SOPHISTICATED MCU CONTROLLED AUTO-SELECTION OF ACA, ACV OR DCV SHORTENS THE TIME TO MEASURE AND INCREASES THE EASE OF USE

FULL POWER PARAMETERS

DUAL DISPLAY MEASUREMENTS OF "W + PF", "VA + PF", OR "VAR + PF" ON 3~ BALANCED-LOAD & 1~ POWER

TOTAL POWER FACTOR

PF = W / VA IS USED FOR NOWADAYS POWER-SYSTEMS WITH HARMONICS

3~ UNBALANCED-LOAD POWER W

MEASURES UNBALANCED-LOAD POWER THRU DISCRETE MEASUREMENTS BY ONLY ONE SINGLE PAIR OF JAWS FOR LOWER COST OF OWNERSHIP & BETTER PORTABILITY

MEETS EN61326-1:2006 (EN55011, EN61000-3-2/-3 & EN61010-4-2-8-1-4/-5/-3/-8-11)



MAX 600A 600V CAT III] PEAK-IMS HOLD

(BKWHI

LIGHT WEIGHT & STYLISH

ALSO COMES WITH A SOFT POUCH FOR EASY CARRYING & PROTECTION

65ms PEAK-RMS HOLD

CAPTURES IN-RUSH RMS VALUES OF ACA OR ACV AS SHORT AS 65ms IN DURATION

DATA HOLD

FREEZES THE DISPLAYING READING FOR LATER VIEW

PROBE HOLDERS

BUILT-IN PROBE STORAGE HOLDERS

BATTERY COMPARTMENT

WITH ACCESS DOOR FOR EASY BATTERY REPLACEMENT

kWHr RECORDING

RECORDS BOTH 3~ BALANCED-LOAD & 1~ KILO-WATT-HOUR READINGS WITH LAST MEMORY RECALL

A-lags-V INDICATION

UNAMBIGUOUS INDICATIONS OF CURRENT LAGS VOLTAGE IN INDUCTIVE CIRCUITS

HIGH CURRENT ACA Hz

MEASURES NON-INVASIVE ACA FREQUENCY VIA CLAMP JAWS

HIGH VOLTAGE ACV Hz

MEASURES NOISY HIGH VOLTAGE ACV FREQUENCY VIA TEST LEADS

250us FAST AUDIBLE CONTINUITY

FOR QUICK OPEN-SHORT TESTS ON SWITCHES, FUSES, AND WIRES

RESISTANCE

JP TO 999 9 OHMS 0.1 OHM

RESOLUTION WITH BODY PROTECTION

UP TO SAV 1250 IS LIGHTNING SURGE MORE CONFIDENCE FOR SERIOUS USERS

BM351 & BM357 GENERAL SPECIFICATION

Voltage functions: 6000 counts LCD display Power, Ohm & Hz functions: 9999 counts LCD display ACA clamp-on function: 4000 counts LCD display

Power function: 2 per second nominal

Voltage, ACA clamp-on & Ohm functions: 2 per second

nominal

Hz function: 1 per second nominal

Polarity: Automatic

Low Battery: Below approx. 2.4V Operating Temperature: 0°C to 40°C

Relative Humidity: Maximum relative humidity 80% for temperature up to 31°C decreasing linearly to 50% relative

humidity at 40°C

Altitude: Operating below 2000m

Storage Temperature: -20°C to 60°C, < 80% R.H. (with

battery removed)

Temperature Coefficient : nominal 0.15 x (specified accuracy)/°C @(0°C -18°C or 28°C -40°C), or otherwise

specified

Sensing: True RMS sensing Safety: Meets IEC61010-1 2nd Ed., EN61010-1 2nd Ed., UL61010-1 2nd Ed., IEC61010-2-032, EN61010-2-032,

UL61010B-2-032

Measurement Category : III 600 Volts ac & dc Transient protection : 6.5kV (1.2/50µs surge)

Pollution degree : 2 E.M.C. : Meets Meets EN61326-1:2006 (EN55022, EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11)

In an RF field of 3V/m:

Total Accuracy = Specified Accuracy + 50 digits Performance above 3V/m is not specified

Overload Protections:

ACA Clamp-on jaws : AC 600A rms continuous + & COM terminals (all functions) : 600VDC/VAC rms Power Supply: standard 1.5V AAA Size (NEDA 24A or IEC

LR03) battery X 2

Power Consumption:

Voltage, ACA, Hz & Power functions: 11mA typical

Ohm function: 5.5mA typical APO Timing: Idle for 30 minutes APO Consumption: 4µA typical Dimension: L189 X W78 X H40 mm

Weight: 192 gm approx

Jaw opening & Conductor diameter: 26 mm max Special features: Backlighted display (BM357 only); AutoVA™ (Auto Selection on ACV, DCV or ACA functions); selectable Power parameters of W, VAR & VA with Total Power Factor in dual-display; kWHr Recording (BM357 only); Display Hold; PEAK-rms HOLD; PC-Comm computer

interface capabilities

Accessories: Test leads (pair), batteries installed, user's

manual & soft carrying pouch

Optional accessories: BRUA13X PC interface kit (including BUA-2303 USB-to-Serial adaptor, BA-1XX optical adapter back, BC-100R cable & Bs software CD)

ELECTRICAL SPECIFICATION

Accuracy is ± (% reading digits + number of digits) or otherwise specified, at 23 °C±5 °C & less than 75% R.H.

True RMS ACV & ACA clamp-on accuracies are specified from 0% to 100% of range or otherwise specified. Maximum Crest Factor are as specified below, and with frequency spectrums, besides fundamentals, fall within the meter specified AC bandwidth for non-sinusoidal waveforms. Fundamentals are specified at 50Hz and 60Hz.

% + 5d
5

: >120dB @ DC, 50/60Hz, Rs=1kΩ CMRR

Input Impedance: 2MΩ, 30pF nominal DCV AutoVATM Threshold: 2.4VDC nominal

AC Voltage

RANGE	Accuracy
50Hz / 60Hz	
600.0V	0.5% + 5d
45Hz ~ 500Hz	
600.0V	1,5% + 5d
500Hz ~ 3.1kHz	
600.0V	2.5% + 5d

CMRR: >60dB @ DC to 60Hz, Rs=1kΩ Input Impedance: 2MΩ, 30pF nominal

Crest Factor: < 2: 1 at full scale & < 4: 1 at half scale ACV AutoVA™ Threshold: 30VAC (40Hz ~ 500Hz only) nominal

ACA Current (Clamp-on)

RANGE	Accuracy () 2)
50Hz / 60Hz	
40.00A, 400.0A, 600A	1.0% + 5d
45Hz ~500Hz	1.0000.000.000
40.00A, 400.0A	2.0% + 5d
600A	2.5% + 5d
500Hz ~ 3.1kHz	The state of the s
40.00A, 400.0A	2.5% + 5d
600A	3.0% + 5d

ACA AutoVATM Threshold: 1A AC (40Hz ~ 500Hz only) nominal

Crest Factor

< 3:1 at full scale & < 6:1 at half scale

¹⁾Induced error from adjacent current-carrying conductor: < 0.06A/A ²⁾Specified accuracy is from 1% to 100% of range and for measurements made at the jaw center. When the conductor is not positioned at the jaw center, position errors introduced are:

Add 1% to specified accuracy for measurements made WITHIN jaw marking lines (away from iaw opening)

Add 4% to specified accuracy for measurements made BEYOND jaw marking lines (toward jaws opening)

PEAK-rms HOLD (ACA & ACV only)

Response: 65ms to >90%

Frequency

RANGE	Accuracy
5Hz ~ 500Hz	0.5%+4d
C	

Sensitivity (Sine RMS) 40A range: > 4A 400A range: > 40A 600A range: > 400A 600V range: > 30V

Olinis			
RANGE	Accuracy	П	
999.9Ω	1.0% + 6d		

Open Circuit Voltage: 0.4VDC typical

Audible Continuity Tester Audible threshold: between 10Ω and 300Ω .

Response time: 250µs

Single-Phase & 3-Phase Balanced-Load Power

RANGE	Accuracy 1) 2) 3)			
0 ~ 360.0kVA	F ~ 10th	11th	~ 45th	46th ~ 51st
@ PF = 0.99 ~ 0.1	2.0%+6d	3.59	6+6d	5.5%+6d
RANGE	Accuracy 1) 2) 4)			
0~360.0kW/kVAR	F ~ 10th	11th ~ 25th	26th ~ 45th	46th ~ 51st
@ PF = 0.98 ~ 0.70	2.0%+6d	3.5%+6d		
@ PF = 0.70 ~ 0.50	3.0%+6d	3.3%+00	4.5%+6d	10%+6d
@ PF = 0.50 ~ 0.30	4.5	%+6d		
@ PF = 0.30 ~ 0.20	109	%+6d	15	%+6d

¹⁾Specified accuracy is for ACA clamp measurement at the center of jaws. When the conductor is not positioned at the jaw center, position errors introduced are:

Add 1% to specified accuracy for ACA measurements made WITHIN jaw marking lines (away from jaw opening)

Accuracy is not specified for ACA measurement made BEYOND jaw marking lines (toward jaws opening)

2)Add 4d to specified accuracy for 3-Phase Balanced-Load Power measurements.

3) Add 1% to specified accuracy @ ACA fundamental < 6A or ACV fundamental < 90V. Accuracy is not specified @ ACA fundamental < 1A or ACV fundamental < 30V

4)Add 1% to specified accuracy @ ACA fundamental < 6A or ACV fundamental < 90V. Accuracy is not specified @ ACA fundamental < 2A or ACV fundamental < 50V

Total Power Factor (PF)

RANGE	Acci	uracy 1)
ALLERO CONTANTO	F ~ 21st	22nd ~ 51st
0.10 ~ 0.99	3d	5d

Specified accuracy @ ACA fundamental > 2A; ACV fundamental > 50V

A-lags-V Indication:

LCD annunciator ||A-lags-VI| turns on to indicate an inductive circuit, or Current A lags Voltage V (i.e., phase-shift angle θ is 0+0).

A-lags-V Indication is specified at 50/60Hz fundamental without the presence of harmonics, and at ACV > 90V, ACA > 9A and PF < 0.95

kWHr (kilo-Watt-Hour Energy) (BM357 only)

Time base accuracy: < 30ppm

Non-volatile memory: Separately stores one 3-Phase-Balanced-Load and one Single-Phase

3-Phase Unbalanced-Load Power (BM357 only)

This 3-Phase Unbalanced-Load Power measurement is achieved thru the calculation of discrete single-phase measurements that are taken one at a time manually. Since it is not real-time on all 3 phases simultaneously, it is intended only for stable power conditions without significant power fluctuations over the time of measurements. Result accuracy is hence the accumulated accuracy of the discrete single-phase measurements plus the associated fluctuations.

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