

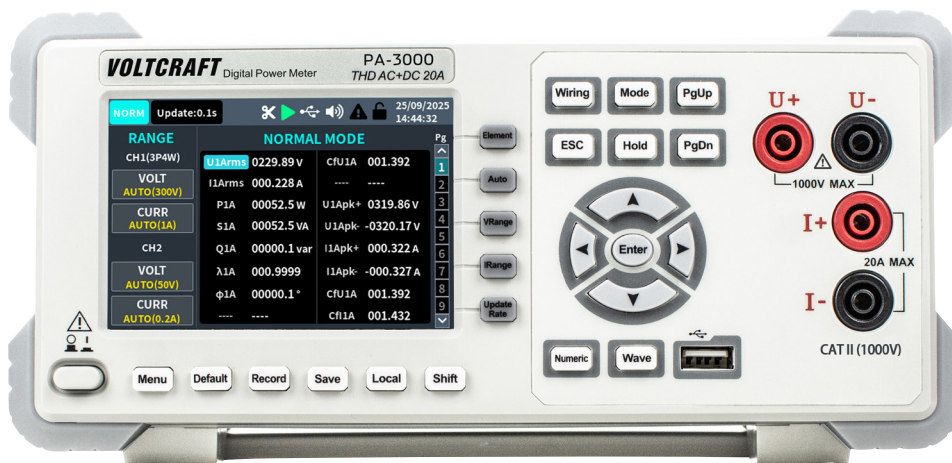
VOLTCRAFT

VOLTCRAFT - RELIABLE AND PRECISE. SINCE 1982.

For decades, our product range has been dynamically adapting to the constant changes in the industry.

We commit to offering first-class quality to our customers while delivering an excellent cost-performance ratio. This philosophy remains the cornerstone of Voltcraft's success.

PA-3000 DIGITAL POWER METER



Item no. 3758725

This versatile dual-channel power meter is a highly accurate measurement device designed for comprehensive AC and DC applications. It easily calculates complex electrical parameters—including power, efficiency, and harmonics—utilizing dedicated front and rear input channels. Standard RS232 communication and USB data logging simplify remote operation and long-term recording, making it ideal for testing everything from household appliances to renewable energy systems.

FEATURES

Dual-channel front and rear design supporting single and three-phase AC // Rear CH1 handles 3–600V/20A AC RMS with $\pm 0.2\%$ accuracy // Front CH2 handles 0–1000V/0–20A AC+DC with $\pm 0.5\%$ accuracy // Performs integration and harmonic analysis up to the 63rd order // Supports customizable efficiency calculations

PACKAGE CONTENTS

Product // power cable // Banana plug to crocodile clip test leads // operating instructions

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TECHNICAL DATA

The product must be operated continuously for more than 30 minutes at the specified operating temperature to meet these specifications.

Display	10 cm (3.95") TFT Color Display	
Update rate	0.1s、0.2s、0.5s、1s、2s、5s	
Measurement items	V, A, W, VA, var, λ, fU, CfU, Cfl, Upk, Ipk, THD	
Measurement method	CH1 3ph-AC	CH2 1ph-AC+DC
Voltage measurement range	3.0V-600Vrms	0V-1000Vpk ^{*1}
Voltage range	CF=3: 75V/150V/300V/600V CF=6: 37.5/75V/150V/300V	50V/100V/500V/1000V
Voltage accuracy	±(0.4% of reading + 0.1% of range + 1 digit)	
Voltage resolution	0.01V/0.1V	
Current measurement range	0~20.0Arms	0-20Apk ^{*1}
Current range	CF=3: 0.2A/1A/4A/20A CF=6: 0.1A/0.5A/2A/10A	0.2A/1A/4A/20A
Current accuracy	±(0.4% of reading + 0.1% of range + 1 digit)	
Current resolution	0.001A	
Range Switching	Auto/Manual	
Power Range	0~36kW	0~20kW
Power accuracy	±(0.4% of reading + 0.1% of range + 1 digit)	
Power Resolution	0.01W/0.1W/1W	
Power Factor Range	-1.000~1.000	
Power Factor Accuracy	±(0.4% of reading + 0.1% of range + 1 digit)	----
Operating Frequency	40Hz~70Hz	DC+40Hz-70Hz
Frequency Accuracy	±(0.1% of reading + 1 digit)	----
Harmonic Analysis	2.8 kHz bandwidth, up to 63rd order	----
Integration Function	Watt-hour (Wh), Ampere-hour (Ah)	
Warm-up Time	> 30 min	
Peak Current	60A	30A
Maximum Continuous Input	Vrms=700V; Irms=24A	Vpk=1100V; Ipk=24A
Interface	RS232	
Communication	Standard SCPI , Modbus protocol	
Protocol		
Baud Rate (bps)	2400、4800、9600(default)、19200、38400、57600、115200,	
Display Hold	YES	
Mute	YES	
Key Lock	YES	
Power Supply	AC 100V~240V, 50/60Hz	
Operation environment	18 °C ~ 28 °C, 30% ~ 75% RH (When operating temp. is outside 18 °C ~ 28 °C, add temp. coefficient: 0.05% of reading / °C)	
Storage Environment	-10 °C ~ 50 °C, ≤ 80% RH (non-condensing)	
Operating Altitude	≤2000 meters	
Weight	Approx. 3kg	
Dimensions	235mm(L) × 110mm(H) × 295mm(W)	