

Order Code : 20213590.1.3A

Name : Digital Clamp On Power Meter

SPECIFICATIONS		
Basic Functions	Range	Best Accuracy
AC Voltage	0-100V/400V/750V	$\pm(1.2\%+5\text{digits})$
AC Current	0-40A/100A/400A/1000A	$\pm(2\%+5\text{ digits})$
Active Power	0.01kW-750kW	$\pm(3\%+5\text{ digits})$
Apparent Power	0.01kVA-750kVA	$\pm(3\%+5\text{ digits})$
Reactive Power	0.01kVAr-750kVAr	$\pm(4\%+5\text{ digits})$
Power Factor	0.3~1(Capacitive or Inductive )	$\pm(0.02+2\text{ digits})$
Phase Angle	0° ~90°	$\pm 2^\circ$
Frequency	50Hz-200Hz	✓
Active Energy	0.001~9999 kWh	$\pm(3\%+2\text{ digits})$
Temperature	-50°C~1300°C	-58°F~2372°F
SPECIAL FUNCTIONS		
Auto Ranging		✓
Single-phase 2-wire		✓
Balance 3-phase 3-wire		✓
3-phase 4-wire		✓
True RMS	AC Voltage (and) Current	✓
Data Logging	99	✓
Data Recall		✓
Max/Min Mode		✓
Data Hold		✓
USB PC Interface		✓
Display Backlight		✓
Full Icon Display		✓
Sleep Mode		✓
Low Battery Display		✓
Input Impedance for AC Voltage Measurement	Around 10M $\Omega$	✓
Max. Display	9999	✓
Analogue Bar Graph		✓



Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.

**TESCA TECHNOLOGIES PVT. LTD.**

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## TECHNICAL SPECIFICATIONS

Accuracy: (a% reading + b digits), guarantee for 1 year.

Operating temperature: 23°C±5°C

Operating humidity: 45~75%R,H

### AC Voltage (True RMS)

Range	Resolution	Accuracy	Allowable Maximum overload protection voltage	Input Impedance	Frequency Range
100V	0.1V	±(1.2%+5)	750 RMS	10MΩ	50Hz~200Hz
400V					
750V					

### Frequency

Range	Resolution	Accuracy
50Hz~200Hz	1Hz	±(0.5%+5)

### AC Current (True RMS)

Range	Resolution	Accuracy	Allowable Maximum overload protection current	Frequency Range
40A	0.1A	±(2%+5)	1000A RMS	50Hz~60Hz
100A				
400A				
1000A	1A			

### Active Power (W=V x A x COSθ)

Current / Voltage		Voltages Range		
		100V	400V	750V
Current Range	40A	4.00KW	16.00KW	30.00KW
	100A	10.00KW	40.00KW	75.00KW
	400A	40.00KW	160.0KW	300.0KW
	1000A	100.0KW	400.0KW	750.0KW
Accuracy		±(3%+5)		
Resolution		<1000KW: 0.01KW >1000KW: 0.1KW		

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**Apparent Power (VA = V x A)**

Current / Voltage	Voltages Range			
	100V	400V	750V	
Current Range	40A	4.00KVA	16.00KVA	30.00KVA
	100A	10.00KVA	40.00KVA	75.00KVA
	400A	40.00KVA	160.0KVA	300.0KVA
	1000A	100.0KVA	400.0KVA	750.0KVA
Accuracy	±(3%+5)			
Resolution	<1000KVA: 0.01KVA >1000KVA: 0.1KVA			

**Reactive Power (Var = V x A x SIN Θ)**

Current / Voltage	Voltages Range			
	100V	400V	750V	
Current Range	40A	4.00KVAr	16.00KVAr	30.00KVAr
	100A	10.00KVAr	40.00KVAr	75.00KVAr
	400A	40.00KVAr	160.0KVAr	300.0KVAr
	1000A	100.0KVAr	400.0KVAr	750.0KVAr
Accuracy	±(3%+5)			
Resolution	<1000KVAr: 0.01KVAr >1000KVAr: 0.1KVAr			

**Power Factor (PF = W / VA)**

Range	Accuracy	Resolution	Measuring Condition
0.3~1 (capacitive or inductive)	±0.022	0.001	The minimum measuring current 10A The minimum measuring voltage 45V
0.3~1 (capacitive or inductive)	For reference only		Measuring current less than 10A OR Measuring voltage Range less than 45V

**Phase Angle (PG=acos (PF))**

Range	Accuracy	Resolution	Measuring Condition
0° ~90° (capacitive or inductive)	±2°	1°	The minimum measuring current 10A The minimum Measuring voltage 45V
(capacitive or inductive)	For reference only		Measuring current less than 10A OR Measuring voltage less than 45V

**Active Energy (kWh)**

Range	Accuracy	Resolution
1~9999kWh	±(3%+2)	0.001kWh

**Remarks:**

- Allowable maximum overload protection voltage: 750V RMS
- Allowable maximum overload protection current: 1000A RMS

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