

Model 7504SA, and 7500DT

Functional Specifications

INPUT	
Voltage	100/115/200/230 VAC \pm 10%, Single Phase, User selection
Frequency	47 - 63 Hz
Fuse	15 Amp 250V fast blow internal
DIELECTRIC WITHSTAND TEST MODE	
Output Rating	5 KV @ 100 mA AC, 6 KV @ 10 mA DC
Output Adjustment	Range: 0 - 5 KV AC, 0 - 6 KV DC Resolution: 1 volt/step Accuracy: \pm (2% of setting + 5 volts)
Ramp-HI	12mA peak maximum, ON/OFF selectable
Charge-LO	Range: 0.0 - 350.0 μ A DC or Auto set
HI-Limit	AC Range: 0.00 - 99.00 mA Resolution: 0.01 mA/step DC Range: 0 - 9999 μ A Resolution: 1 μ A/step Accuracy: AC or DC \pm (2% of setting + 2 counts)
LO-Limit	AC Range: 0.000 - 9.999 mA Resolution: 0.001 mA/step DC Range: 0.0 - 999.9 μ A Resolution: 0.1 μ A/step Accuracy: AC or DC \pm (2% of setting + 2 counts)
Arc Detection	Range: 1 - 9
Failure Detector	Audible and Visual
Voltage Display	Range: 0.00 - 6.00 KV Full Scale Resolution: 10 volt/step Accuracy: \pm (2% of reading + 2 counts)

Current Display	AC	Auto Range
		Range 1: 0.000mA - 3.500mA Resolution: 0.001mA/step Accuracy: $\pm (2\% \text{ of reading} + 0.003\text{mA})$
	DC	Range 2: 3.00 - 99.00 mA Resolution: 0.01 mA/step Accuracy: $\pm (2\% \text{ of reading} + 0.06\text{mA})$
		Range 1: 0.0 μA - 350.0 μA Resolution: 0.1 $\mu\text{A}/\text{step}$ Accuracy: $\pm (2\% \text{ of reading} + 0.3\text{uA})$
		Range 2: 300 μA - 3500 μA Resolution: 1 $\mu\text{A}/\text{step}$ Accuracy: $\pm (2\% \text{ of reading} + 2\text{uA})$
		Range 3: 3000 μA - 9990 μA Resolution: 10 $\mu\text{A}/\text{step}$ Accuracy: $\pm (2\% \text{ of reading} + 60\text{uA})$
DC Output Ripple	$\leq 4\%$ Ripple RMS at 6 KV DC @ 3.5 mA, Resistive Load	
AC Output Wave Form	Sine Wave, Crest Factor = 1.3 - 1.5	
Output Frequency	Range: 60 or 50 Hz, User Selection Accuracy: $\pm 1\%$	
Output Regulation	$\pm (1\% \text{ of setting} + 5 \text{ volts})$ from no load to full load	
Dwell Timer	Range: 0, 0.3 - 999.9 sec (0 = Constant) Resolution: 0.1 sec increments Accuracy: $\pm (0.1\% + 0.05 \text{ sec})$	
Ramp Timer	Range: AC 0.1 - 999.9 sec DC 0.4 - 999.9 sec Resolution: 0.1 sec increments Accuracy: $\pm (0.1\% + 0.05 \text{ sec})$	
Ground Continuity Model 7500DT only	Current : DC 0.1 A $\pm 0.01\text{A}$, fixed Max. ground resistance : 1 $\Omega \pm 0.1\Omega$, fixed	
Ground Fault Interrupt	GFI Trip Current: 450 μA max (AC or DC) HV Shut Down Speed: $< 1 \text{ ms}$	

INSULATION RESISTANCE TEST MODE				
Output Voltage	Range:	100 - 1000 Volts DC		
	Resolution:	1 volt/step		
	Accuracy:	± (2% of reading + 2 volts)		
Short Circuit Current	Maximum:	12mA peak		
Voltage Display	Range:	0 - 1000 V		
	Resolution:	1 volt/step		
	Accuracy:	± (2% of reading + 2 counts)		
Resistance Display	Range:	1 - 9999 MΩ (4 Digit, Auto Ranging)		
	Resolution:	500VDC	1000VDC	
		MΩ	MΩ	MΩ
		0.001	1.000 - 5.388	1.000 - 9.999
		0.01	1.40 - 53.88	2.80 - 99.99
		0.1	14.0 - 538.8	28.0 - 999.9
		1	104 - 9999	280 - 9999
	Accuracy:	± (2% of reading + 2 counts) at test voltage 500 - 1000V and 1 - 1000 MΩ		
		± (8% of reading + 2 counts) at test voltage 500 - 1000V and 1000 - 9999 MΩ		
		± (8% of reading + 2 counts) at test voltage 100 - 500V and 0 - 1000 MΩ		
Charge-LO	Range:	0.000 - 3.500μA or Auto Set		
HI-Limit	Range:	0 - 9999 MΩ (0 = Off)		
LO-Limit	Range:	1 - 9999 MΩ		
Delay Timer	Range:	0, 0.5 - 999.9 sec (0 = Constant)		
	Resolution:	0.1 sec/step		
	Accuracy:	± (0.1% + 0.05 sec)		
Ground Fault Interrupt	GFI Trip Current:	450 μA max (AC or DC)		
	HV Shut Down Speed:	< 1 ms		

GROUND BOND TEST MODE Model 7504SA only	
Output Voltage (Open Circuit Limit)	Range: 3.00 - 8.00 Volts AC Resolution: 0.01 volt/step Accuracy: $\pm (2 \% \text{ of Setting} + 0.03\text{V})$ O.C. Condition
Output Frequency	Range: 60 or 50 Hz, User Selection Accuracy: $\pm 1\%$
Output Current	Range: 3.00 - 30.00 Amps AC Resolution: 0.01 Amp/step Accuracy : $\pm (2 \% \text{ of Setting} + 0.02 \text{ A})$
Current Display	Range: 0.00 - 30.00 Amps Resolution: 0.01 Amp/step Accuracy: $\pm (3 \% \text{ of Reading} + 0.03 \text{ A})$
Resistance Display	Range: 0 - 600 m Ω Resolution: 1 m Ω /step Accuracy: $\pm (2 \% \text{ of Reading} + 2 \text{ m}\Omega)$
HI-Limit	Range: 0 - 600 m Ω for 3 - 10 A 0 - 150 m Ω for 3 - 30 A Resolution: 1 m Ω /step Accuracy: $\pm (2 \% \text{ of Setting} + 2 \text{ m}\Omega)$
LO-Limit	Range: 0 - 600 m Ω for 3 - 10 A 0 - 150 m Ω for 3 - 30 A Resolution: 1 m Ω /step Accuracy: $\pm (2 \% \text{ of Setting} + 2 \text{ m}\Omega)$
Dwell Timer	Range: 0, 0.5 - 999.9 sec (0 = Constant) Resolution: 0.1 sec/step Accuracy: $\pm (0.1\% + 0.05 \text{ sec})$
Milliohm Offset	Max. Offset 200 m Ω Capability: Resolution: 1 m Ω / step Accuracy: $\pm (2 \% \text{ of Setting} + 2 \text{ m}\Omega)$

GENERAL SPECIFICATIONS	
PLC Remote Control	Input - Test, Reset, Recall memory # 1, # 2 and # 3 Output - Pass, Fail, Test-in-Process
Memory	Allows storage of up to 50 groups different test programs and 8 step/each memory.
Security	Programmable password lockout capability to avoid unauthorized access to test set-up program.
LCD Contrast Setting	9 ranges set by the numeric keys on the front panel.
Buzzer Volume Setting	10 ranges set by the numeric key on the front panel.
Calibration	Software and adjustments are made through front panel.
Mechanical	Bench or rack mount with tilt up front feet.
Dimension	7500DT and 7504SA: (W x H x D) 17 x 5.8 x 16.5 in. (432 x 147 x 419 mm)
Weight	7504SA: 68.75 lbs (31.25 Kgs) 7500DT: 61.65 lbs (28 Kgs)