

## Model 3500D, 3505D, 3565D and 3570D Functional Specifications

Unless otherwise stated, accuracy's are relative to a laboratory standard measurement.

Descriptions	STAND TEST MODE Specifications		
INPUT VOLTAGE	115 / 230V selectable, ± 15 % variation		
	47 - 63 Hz		
FUSE	115 VAC, 230VAC 3.15A fast acting 250VAC		
UUIPUI	Raing AC 0 5000V, 2V / step, 12mA		
	DC 0 - 6000V, 2V / step, 5mA		
	(DC mode on 3565D and 3570D only)		
	Regulation: ±(1% of output + 5V)		
VOLTAGE SETTING	0V - Max output rating, 10 volts/step		
	Accuracy : ± (2 % of Setting + 5V) (relative to displayed		
	output)		
	Can be adjusted during operation via UP and DOWN arrow		
	keys.		
OUTPUT	3500D, 3505D: 50 / 60 Hz selectable		
FREQUENCY	3565D and 3570D : DC and 50 / 60 Hz selectable		
WAVE FORM	Sinewave, Distortion: <2 % THD		
RIPPLE	< 5 % at 6KVDC / 5mA (3565D and 3570D only)		
DWELL TIME	0 and 0.2 - 999.9 seconds, 0.1 second / step		
SETTING	"0" for continuous running		
RAMP TIME	Model 3505D, 3565D and 3570D		
SETTING	0 and 0.2 - 999.9 seconds, 0.1 second / step		
	0 ramp setting = 0.1 seconds fixed ramp		
	Model 3500D and 3505D		
	Ramp = 0.1 seconds fixed		
FAILURE SETTINGS			
	High limit: 0.10 - 12.00 mA, 0.01 mA/step		
	Low limit: 0.00, 0.10 - 12.00 mA, 0.01 mA / step (0= OFF)		
	(3505D, 3565D and 3570D only)		
	Accuracy: ± (2 % of setting + 0.02 mA)		
	DC mode		
	High limit: 0.02 - 5.00 mA, 0.01 mA / step		
	Low limit: 0.00, 0.02 - 5.00 mA, 0.01 mA / step (0= OFF		
	(3505D, 3565D and 3570D only)		
	Accuracy: ± (2 % of setting + 0.02 mA)		



Descriptions						
METERING	Voltmeter (4	Voltmeter (4 digits)  Specifications				
	Range	aigits)				
	Kange	Range : AC 0.00 - 5.00 KV				
	Resoluti	: DC 0.00 - 6.00 KV Resolution : .01 KV				
	Accuracy	Accuracy : ± (2.9/ -c				
	Ammeter (4 d	Accuracy : ± (2 % of reading + 10 V) Ammeter (4 digits)				
		Range : AC 0.10 - 12.00 mA				
		DC 0.02 - 5.00 mA				
	Resolution	Resolution: 0.01 mA				
TD CD DYCE	Accuracy	: ± (2 % of	reading ± 0 0	2 4 )		
TIMER DISPLAY	Range :	Accuracy: ± (2 % of reading + 0.02mA)  Range: 0.0 - 999.9 seconds				
	Resolution:	Resolution: 0.1 second				
DISCHARGE	Accuracy :	Accuracy : $\pm$ (0.1 % of reading + 0.05 seconds)				
DISCHARGE TIME	≥ 300 ms	≥ 300 ms				
	The maxir	The maximum capacitive load vs output voltage:				
	0.20 μF	0.20 µF < 1KV 0.050 µF < 4KV.				
	0.10 µF	0.10 μF < 2KV 0.040 μF < 5KV				
GROUND	0.06 μF	<3KV	0015 115	< 6KV		
CONTINUITY CHEC	Current : DC	Current: DC 0.1 A ± 0.01 A fixed				
INSIII ATION PROTECTION	Max ground re	cictanca · 1 O	$\pm$ 0.1 $\Omega$ , fixed			
INSULATION RESIS	TANCE TEST M	ODE				
Output Voltage	Range:	100 - 1000	Volta DC	1		
	Resolution:	100 - 1000 Volts DC				
		· · · · · · · · · · · · · · · · · · · ·				
*/	Ассигасу:	$\pm$ (2% of re	ading + 5 vol	lts)		
Voltage Display	Range:	0 - 1000 V				
	Resolution:					
		10 volt/step .				
Davis	Accuracy:	± (2% of reading + 2 counts)				
Resistance Display	Range:	1 - 1000 Mg	Q (4 Digit A	uto Ranging)		
	Resolution:		500VDC			
			SOUADC	1000VDC		
		$M\Omega$	$M\Omega$	$M\Omega$		
		0.01 1.0	00 - 40.00	1.00 - 80.00		
	Accuracy		.0 - 999.9	75.0 - 999.9		
	Accuracy:	± (3% of reading + 2 counts)				
		at test voltage > 500V ± (7% of reading + 2 counts)				
		at test voltage	e ≤ 500V			



Descriptions	Specifications			
High Resistance Limit	Range:	$0 - 1000 \mathrm{M}\Omega $		
Low Resistance Limit	Range:	1 - 1000 ΜΩ		
Delay Timer	Range:	0, 0.5 - 999.9 sec (0 = Constant)		
	Resolution:	0.1 sec/step		
	Accuracy:	$\pm (0.1\% + 0.05 \text{ sec})$		
GENERAL				
REMOTE CONTROL AND SIGNAL	The following input and output signals are provided through the 9 pin D type connector;			
OUTPUT	Remote control: test and reset			
PP 0 0P 11 (1 m) (0 PY	2. Outputs: pass, fail and test in process			
PROGRAM MEMORY	5 Sets (3505D, 3565D and 3570D only)			
SECURITY	Lockout capability to avoid unauthorized access to test set-up program.			
LINE CORD	Detachable 7 ft. (2.13m) power cable terminated in a three			
	prong grounding plug.			
TERMINATIONS	5ft.(1.52m) high voltage and return leads (2) with clips and a standard U.S. style (NEMA 5-15) remote receptacle box for testing items terminated with a line cord. International receptacles also available.			
MECHANICAL	Tilt up front feet.  Dimensions: (W x H x D) 11 x 3.5 x 14.56 in. (280 x 89 x 370 mm)  Weight: 20 lbs (9 Kgs)			
ENVIRONMENTAL	Operating Temperature: 32° - 113°F (0° - 45°C) Relative Humidity - 0 to 95%			
CALIBRATION	Traceable to National Institute of Standards and Technology (NIST). Calibration controlled by software. Adjustments are made through front panel keypad in a restricted access calibration mode. Calibration information stored in non-volatile memory.			