

MENTOR 12 TECHNICAL SPECIFICATIONS

POWER OUTPUT

VOLTAGE AMPLIFIERS		CURRENT AMPLIFIERS	
Capacity	1 - 6	1 - 6	
Output ranges per channel	0 - 150 V AC / 0 - 5 A AC / 0 - 212 V DC / 0 - 5 A DC	0 - 25 A AC and DC	
Outputs configurations	Up to 6 x (150 V AC 100 VA / 212 DC) Up to 3 x (300 V AC 200 VA / 424 DC) Up to 1 x (600 V AC 400 VA / 848 DC) + 1 x (300 V AC 200 VA / 424 DC) As current mode: Up to 6 x (5 A AC 100 VA / 5 DC) Up to 3 x (10 A AC 200 VA / 10 DC) Up to 1 x (20 A AC 400 VA / 20 DC) + 2 x (5 A AC 100 VA / 5 DC)	Up to 6 x (25 A AC 100 VA / 25 DC) Up to 3 x (50 A AC 200 VA / 50 DC) Up to 1 x (100 A AC 400 VA / 100 DC) + 1 x (50 A AC 200 VA / 50 DC) Up to 1 x (150 A AC 600 VA / 150 DC)	
Power per channel	100 VA continuous @ 37.5 - 150 V AC, 100W	100 VA @ 9.5 A AC, 100 W	
Adjustment resolution	5 mV / 0.5 mA	0.5 mA	
Reversibility	Yes	No	
Accuracy	0.1% of the value $\pm$ 0.03% of the range (20-30°) @ 50-60 Hz		
Distortion	0.1 % @ 50-60 Hz (resistive load) / 2 % @ 50-60 Hz (maximum inductive load)		
Isolation	Yes (from mains and between all channels)		
Combined output	Series and Parallel		
Frequency	Adjustment range: 0.0 - 2000 Hz / Bandwidth: 3000 Hz / Resolution: 5 μ Hz / Accuracy: 1 ppm		
Phase angle	Range: 0.0 - 359.9° / Accuracy: 0.1° / Resolution: 0.001°		

LOW LEVEL OUTPUTS

NUMBER	TYPE	LEVELS	RANGES	ISOLATION	RESOLUTION	ACCURACY	DISTORTION
6	V	0-10 Vpk (1 mA max.)	1	No	250 μ V	0.07 %	0.05 %

TIMERS

NUMBER	RESOLUTION	RANGES	ACCURACY
4	0.1 ms	00000.0001 - 99999.9999 sec.	0.001 % +/- 0.1 ms

BINARY INPUTS

NUMBER	TYPE	THRESHOLDS	RANGES	ISOLATION	RESOLUTION	COUNTER FUNCTION
12	Dry or voltage	1.5, 15 V	+/-400 V (p-p)	6 groups of 2	0.1 ms	Up to 3 kHz. (width: 150 μ s) 100 kHz. in 1 group

BINARY OUTPUTS

NUMBER	TYPE	LEVELS	ISOLATION	TIME RESOLUTION
8	Relay or Open Collector	300 Vdc / 300 Vac / 8 A 2000 VA / 240 W	Yes	100 μ s