

Specifications

Note: All specifications apply to the unit after a temperature stabilization time of 30 minutes over an ambient temperature range of 23 °C ± 5 °C. Specifications are subject to change without notice.

Model		9812/9812-220V	9814-220V
AC Input			
Voltage		230 VAC ± 15% 115 VAC ± 15%	
Frequency		47 Hz to 63 Hz	
Phase		Single	
Maximum Current	110 V	16 A	-
	220 V	8 A	16 A
Power Factor		0.7 (typical)	
Output Parameters			
Rated Power		500 VA	1000 VA
Output Voltage		0 to 300 V	
Output Frequency		45.0 Hz to 500 Hz	
Max. Current (RMS)	0 to 150 V	4.2 A	8.4 A
	0 to 300 V	2.1 A	4.2 A
Max Current (Peak)	0 to 150 V	12.6 A	25.2 A
	0 to 300 V	6.3 A	12.6
Total Harmonic Distortion (THD)		At 45 Hz to 500 Hz, ≤ 0.5 % (resistive load)	
Phase		2-wire single phase	
Crest Factor		3	
Line Regulation		0.1% max for a ± 10% line change	
Load Regulation		≤ 0.5% FS (resistive load)	
Response Time		< 100 μs	
Setting Parameters			
Voltage (rms)	Range	0 to 300 V	
	Resolution	0.1 V	
Frequency	Range	45.0 Hz to 500 Hz	
	Resolution	< 100 Hz, 0.1 Hz ; ≥ 100 Hz, 1Hz	
Initial / Final Phase Angle	Range	0 to 359°	
	Resolution	1°	

Ordering Information

Model	Description
9812	Programmable AC Power Source - 110 VAC Line Input
9812-220V	Programmable AC Power Source - 220 VAC Line Input
9814-220V	Programmable AC Power Source - 220 VAC Line Input

AC Power Cord for 220 V

5 mm ring terminals to support #10 and #8 stud size plugs



Measurement Parameters			
Voltage (rms)	Range	0 to 300 V	
	Resolution	0.1 V	
	Accuracy	±0.5% + 2 digits	
Frequency	Range	45.0 Hz to 500 Hz	
	Resolution	< 100 Hz, 0.1 Hz ; ≥ 100 Hz, 1Hz	
	Accuracy	± 0.1 Hz	
Current (rms)	0 to 150 V	0.000 to 4.200 A	0.000 to 8.400 A
	0 to 300 V	0.000 to 2.100 A	0.000 to 4.200 A
	Resolution	0.001 A	
	Accuracy	± (0.5% + 3 digits)	
Peak Current	0 to 150 V	0.00 to 12.60 A	0.00 to 25.20 A
	0 to 300 V	0.00 to 6.30 A	0.00 to 12.60 A
	Resolution	0.01 A	
	Accuracy	± (5% + 2 digits)	
Power	Range	0 to 500 W	0 to 1000 W
	Resolution	0.1 W	
	Accuracy	± 0.6 % + 5 digits	
Power Factor	Range	0.001 to 1.000	
	Resolution	0.001	
	Accuracy	± 2 % + 2 digits	
General			
Display Resolution		4.3" color LCD, 480 x 272 dots	
Safety Protections		Low voltage (LVP), overvoltage (OVP), overcurrent (OCP), overpower (OPP), and overtemperature protection (OTP)	
I/O interfaces		USB VCOM, RS232, USB host port	
Memory		Manual mode: 50 configurations Program mode : 50 programs with 9 steps per program	
Dimensions (W x H x D)		16.9 x 3.5 x 23.6 inches (430 x 88 x 600 mm)	
Weight		66 lbs (30 kg)	88 lbs (40 kg)
Temperature	Operation	32 °F to 104 °F (0 °C to 40 °C)	
	Storage	-4 °F to 158 °F (-20 °C to 70 °C)	
Humidity		20 % to 80 % (non-condensation)	
Operating Altitude		≤ 2000 meters	
Warranty		3 Years	
Standard Accessories		Terminated power cord with NEMA 5-15P (9812 only), unterminated power cord with ring terminals (9812-220V and 9814-220V) , and certificate of calibration	