

SECTION V. SPECIFICATIONS

General Specifications

	WP-9055	WP-9110	WP-9220
Rated power output (Stereo mode, 20 Hz - 20 kHz, both channels driven, less than 0.05% THD)	N/A	150W (x2) into 4 ohms	300W (x2) into 4 ohms
	50W (x2) into 8 ohms	100W (x2) into 8 ohms	200W (x2) into 8 ohms
Maximum power output (Stereo mode, 1 kHz, 1 channel driven, less than 1% THD)	N/A	230W into 4 ohms	430W into 4 ohms
	70W into 8 ohms	135W into 8 ohms	240W into 8 ohms
Rated power output (Mono mode, 20 Hz - 20 kHz, both channels driven, less than 0.1% THD)	N/A	150W (x2) into 4 ohms	300W (x2) into 4 ohms
	50W (x2) into 8 ohms	100W (x2) into 8 ohms	200W (x2) into 8 ohms
Rated power output (Bridge mode, 20 Hz - 20 kHz, less than 0.1% THD)	N/A	300W into 8 ohms	600W into 8 ohms
	100W into 16 ohms	200W into 16 ohms	400W into 16 ohms
Power bandwidth (Ref. rated power, 1kHz)	- 0.5dB at 10Hz - 3dB at 85kHz (8-ohm load)	- 0.5dB at 10Hz - 3dB at 85kHz (4-ohm load)	- 0.5dB at 10Hz - 3dB at 85kHz (4-ohm load)
Voltage gain (Stereo mode)	24dB (8-ohm load)	27dB (8-ohm load)	30dB (8-ohm load)
Total harmonic distortion (20 Hz - 20 kHz, stereo mode, both channels driven)	Less than 0.05% at any power from 1/4 watt to rated output into 4 or 8 ohms (typically 0.005%, full power, 1kHz)		
Total harmonic distortion (20 Hz - 20 kHz, Mono mode, both channels driven)	Less than 0.1% at any power from 1/4 watt to rated output into 4 or 8 ohms		
Total harmonic distortion (20 Hz - 20 kHz, Bridge mode both channels driven)	Less than 0.1% at any power from 1/4 watt to rated output into 8 ohms (typically 0.006%, full power, 1kHz)		
Intermodulation distortion (SMPTE method, 60 Hz & 7 kHz 4:1 ratio)	Less than 0.05% at any power from 1/4 watt to rated output into 4 or 8 ohms, Stereo Mono mode (typically 0.025% at half power)		
Damping factor	Greater than 100 at frequencies up to 1kHz, 8-ohm load		
Frequency response (Stereo or Bridge mode)	20 Hz to 20 kHz, ± 0.5 dB, at rated power into lowest rated load impedance		
Input impedance	Greater than 40 kohms, balanced; greater than 20 kohms, unbalanced		
Sensitivity (INPUT ATT at 0 dB)	+ 4dB μ (1.23V RMS), ± 1 dB, for maximum rated power; sensitivity can be reduced in 1 dB steps to + 23 dB μ (10.9V RMS) using INPUT ATT controls		
Channel separation	More than 60 dB at 20kHz (worst case) undriven input shorted, at rated power output; typically 65 dB		

Output noise (DIN, 22.4 Hz - 22.4 kHz bandwidth)	Down more than 100 dB from rated output (input shorted, 8-ohm load)		
Controls	POWER switch, INPUT ATTenuator (x2), MODE switch (STEREO/MONO/BRIDGE)		
Cooling	Convection plus (on WP-9110 and WP-9220) full-time, 2-speed fan; fan automatically goes to higher speed when heat sink temperature exceeds 70°C.		
Protection circuits	Output relays (1 per channel) prevent turn-on surges from reaching speaker; also disconnects output if DC is present. Thermal breaker shuts down amp if heat sink temperature exceeds 85°C; auto reset. 'Intelligent' V-I limiting reduces or shuts off output in the presence of short, overload or extreme overdrive; auto reset.		
Circuit breaker	Resettable, AC power breaker on rear panel trips if too much power is drawn by the amp.		
Indicator LEDs	POWER (red, x1) indicates AC power is on, PROTECT (red, x2) indicates channel output relay is disconnected, PEAK (red, x2) indicates channel output power is driven beyond maximum rated value (5% THD), SIGNAL (green, x2) indicates signal is present at 20 dB (+3 dB) below rated maximum.		
Monitor output	Each channel has a post-output relay output for driving a remote VU meter (+14 dB μ into minimum 300-ohm load; 7.5 k Ω optimum load); also includes 1 amp relay closure contacts for activation of remote 'amp output on' indicator lamp or VU meter lamp supply.		
Connectors			
Input:	3-pin male & female XLRs & 1/4" (6.3 mm) Tip/Ring/Sleeve phone jack, all in parallel, for each channel. (WP-9055 does not have male XLRs)		
Output:	5-way binding posts (std. 3/4" centers) and 1/4" Tip/Sleeve phone jack for each channel		
Monitor	4-pin Molex type connector for each channel		
Ground	Knurled, screw-down terminal post		
AC line voltage	120 volts RMS, \pm 10%, 60 Hz		
Power cord	Permanently attached 7-foot (2.1 meter) cord with 3-prong (grounded) plug		
Accessories/options	Security caps to cover shafts after INPUT ATT knobs are removed, and rack mount clips to fill holes vacated by rubber feet (included); Remote monitor connectors (supplied on request)		
	WP-9055	WP-9110	WP-9220
Power consumption (at rated output)	Less than 250W (into 8 ohms)	Less than 650W (into 4 ohms)	Less than 1200W (into 4 ohms)
Dimensions:			
Width:	18-7/8" (480 mm)	18-7/8" (480 mm)	18-7/8" (480 mm)
Height:	2-5/16" (59 mm)	3-15/16" (100.5 mm)	5-11/16" (145 mm)
Depth:	13-1/8" (333 mm)	15-1/16" (383 mm)	15-1/16" (383 mm)
Net weight	19 lbs (8.5 kg)	28.6 lbs (13 kg)	38.6 lbs (17.5 kg)