



SP15 SPECIFICATIONS

(AC line set at 120V 60Hz)

FREQUENCY RESPONSE: High level input: ± 1 dB, 0.2Hz to 100kHz, -3dB below 0.1Hz and above 200kHz
Phono input: ± 2 dB of RIAA 20Hz to 40kHz, ± 1 dB of RIAA, 1.0Hz to 100kHz

HARMONIC DISTORTION: Less than .005% at 2V RMS output, 5Hz to 20kHz (Typically less than .001% at midband, phono or line input)

INTERMODULATION DISTORTION: Less than .003% at 2V RMS output

GAIN: (at 1kHz, Bypass mode):

Phono input to tape output: 46dB (0.2V output from 1mv input)

Phono input to main output: 75dB (0.175mv input for 1V output)

High level input to main output: 29dB (36mv input for 1V output)

INPUTS (7): Phono, Tuner, C-D, Video, Spare, Tape 1, Tape 2

OUTPUTS (7): Tape 1, Tape 2, Main 1, Main 2, Direct, Invert, Balanced

FILTER: 25Hz Hi-pass phono subsonic 6dB/octave rolloff (to eliminate ringing) with transition to 12dB/octave at 10Hz. Front panel switchable, phono only

CONTROLS (6): Gain, Attenuator, Balance, Mode, Input, Impedance

SWITCHES (8): Tape Monitor, Copy, Tape 1/2, Tape 1 to 2/2 to 1, Mute, Invert Phase, Bypass, Filter

INPUT IMPEDANCE: Phono: Front panel selectable 47K, 800, 100, 60, 30 ohms, Phono Input Capacitance: 150pF at 10kHz

High Level: 20K ohms or higher, depending on switch functions

MAXIMUM INPUT LEVEL UNDISTORTED: Phono: 350mV RMS at 1kHz, 1200mV RMS at 10kHz, (0.1 second maximum duration, 6dB less if continuous)
High Level: 25 Volts RMS

OUTPUT IMPEDANCE: 200 ohms main, direct, invert outputs, 500 ohms tape output, Recommended load 60K-100K ohms and 100pF (20K ohms minimum, 1000pF maximum)

RATED OUTPUT: 2V RMS 1Hz to 100kHz main, direct, invert outputs (Maximum 80V RMS output at 0.2% THD at 1kHz into 60K ohm load with 2.85V RMS high level input)

PHASE: Tape outputs, direct output: Non-inverting
Invert Output: Inverting

Main Outputs (2): Selectable non-inverting or inverting. All outputs may be used simultaneously
Balanced: Non-Inverting and Inverting

NOISE (IHF Weighted, shorted input):

Output (Gain down) 6uV (110dB below Rated Output)

Input (High Level): 3uV equivalent input (110dB below 1V input)

Phono: 0.15uV equivalent input (76dB below 1mv input)

TUBE COMPLEMENT (Hybrid FET/Tube Audio Circuit, Solid-State Power Supply): 3 - 6DJ8/ECC88

POWER REQUIREMENTS: 95-135VAC 60Hz (Export 190-270VAC 50/60Hz) 130 Watts maximum

DIMENSIONS: (Each Chassis, EIA Rack Panel Mounting) 19" (48 cm) W x 5 1/4" (13.4 cm) H x 10 1/4" (26 cm) D. Handles extend 1 5/8" (4.1 cm) forward of panel. Interconnect cable extends 4" behind rear of chassis.

WEIGHT: (2 Cartons)

SP15: Net 14 lbs. (6.4 kg), Shipping 22 lbs. (10.5 kg)

SP15PS: Net 15 lbs. (6.8 kg); Shipping 21 lbs. (10.5 kg)



CLASSIC 150 SPECIFICATIONS

(AC line set at 120V 60Hz)

POWER OUTPUT: 140 watts minimum continuous at 8 ohms from 10Hz to 20kHz with less than 0.8% total harmonic distortion (typically below .005% at 1 watt)

Approximate actual power available at "clipping": 150 watts (1kHz) (Note that actual power output is dependent upon both line voltage and "condition" ie: if power line has high distortion, maximum power will be affected adversely.)

POWER BANDWIDTH: (-3dB Points) 7Hz to 100kHz

INPUT SENSITIVITY: .6V RMS for rated output

INPUT IMPEDANCE: 60K ohms, nominal

OUTPUT REGULATIONS: Approximately 0.3dB, 8 ohm load to open circuit (Damping factor approximately 30)

NEGATIVE FEEDBACK: 20dB

SLEW RATE: 25 volts/microsecond

RISE TIME: 2 microseconds

HUM & NOISE: Less than 2mV RMS 90dB below rated output (broad-bandwidth unweighted, inputs shorted)

POWER SUPPLY ENERGY STORAGE: Approximately 350 joules

POWER REQUIREMENTS: 105-125VAC 60Hz (210-250VAC 50Hz) 650 watts at rated output 440 watts at "idle" - 145 watts at "standby"

TUBES REQUIRED: 4 - Matched pair 6550 (low gas) Power Output

DIMENSIONS: 19" (48 cm) W (standard rack panel x 10.5" (27 cm) H x 16" (41 cm) D (front panel back) Handles extend 1 5/8" (4.1 cm) forward of the front panel. Output connectors extend 1" behind rear panel.

WEIGHT: 110 lbs. (50 kg) Net; 120 lbs. (57 kg) Shipping

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