

# SPECIFICATIONS – MODEL: QUAD 15

Parameter	Conditions/description	Value
Dimensions	Standard 19" rack mounting, 2 units W: 482 mm, H: 88.9 mm, D: 250 mm (excluding knobs and switches)	
Weight	7.8 kg / 17.2 lbs.	
Vacuum tubes	Preamp: 2 x ECC83, 1 x 5751, ECC81 - Power amp: 1 x ECC83, 2 x 6V6	
Power supply	Silicon rectifiers with MOSFET regulated HV and bias supply. Short circuit proof HV supply.	
Maximum power consumption	~ 20 W power to speaker (clipped waveform)	~ 55 W
Idle power consumption	No power to speaker	~ 45 W
Ambient temperature range	No ventilation holes blocked	- 10 °C to 50 °C
Thermostat disconnect temperature	(Only occurs during faults, blocked ventilation holes or extreme ambient temperatures)	~ 70 °C
MIDI	Program Messages, all MIDI-channels accepted. 128 storable presets	
MIDI input connector	For 5 pin DIN cable: Pin 4 & 5: MIDI-signal, Pin1: GND, Pin 3: +12V Phantom power For 7 pin DIN cable: Pin 4 & 5: MIDI-signal, Pin1&6: GND, Pin 3&7: +12V phantom power	
MIDI thru connector	5 pin DIN connector, Pin 4 & 5 MIDI-signal (buffered)	
Phantom power (MIDI IN connector)	Voltage	12 V
	Max current	400 mA
<b>Audio inputs and outputs</b>		
INPUT front	Input impedance, tip or ring to ground	1022 kohm (Hi-Z)
INPUT rear	Input impedance	22 kohm (Lo-Z)
GUITAR OUT	Output impedance (buffered signal from front input)	1 kohm for each output
SEND - output	Send connector, tip, signal level Output impedance	250 mV <sub>RMS</sub> (-10 dBV) ~ 430 ohm
	Send connector, ring, signal level Output impedance	1.4 V <sub>RMS</sub> (+4 dBu) ~ 4400 ohm
RETURN - inputs	Return -10 dBV, signal level Input impedance	~ 250 mV <sub>RMS</sub> (-10 dBV) ~ 10 kohm
	Return +4 dBu, signal level Input impedance	1.3 V <sub>RMS</sub> (+4 dBu) ~ 40 kohm
AMP OUT – to slave	Signal level, output impedance	1.3 V <sub>RMS</sub> (+4 dBu), ~ 200 ohm
Speaker outputs	Impedance	Min. 8 ohm total
	Maximum output voltage	+/- 25 V <sub>PEAK</sub>
	Max power, sine wave, 8 ohm to 16 ohm load	~ 15 W
	Max power, clipped sine wave, 8 ohm to 16 ohm load	~ 20 W
	Frequency response (-3 dB), internal speaker emulator load, sine wave to return input.	40 Hz to 20 kHz