



# RESERVE

EXTERNAL POWER SUPPLY FOR AMPLIFIER



FOR QUARK OR BOSON



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Brand Name	Eon Art Reserve	Environmental responsibility	Replacement module for all wear components according to a 5-year schedule
Type	Two power supply models (Quark or Boson)	Repair Index	8/10 -Specialist required
Control	Remotely from the amplifier unit	Life Cycle	50 years when Recommended schedule is adhered to.
Soft start & Pre-heat	5 minutes minimum / 24 hours optimum	Component warranty	10 YEARS -Full product
Cooling	Natural convection, case temperature of 35 celcius at 23 celcius ambient	Wearable components	Recommended schedule provided
Protection mechanisms		Low light mode	Always ON / 10 sec-delay
Thermal Excess	Built-in automatic shutoff	Modularity	Set of (2) independant printed circuits: 1 for depreciable components 1 back plate
Over current from internal source	Built-in automatic shutoff	Board thickness	2.5 mm (twice the industry standard)
Over voltage from internal source	Built-in automatic shutoff	Qty of layers	Eight (8) layers upon the circuit
Fuses	(12) 2 main, 10 internals	PCB track thickness	70 micron copper for each layer
Self-diagnosis	Bluetooth, LED's, microprocessors	PCB colour	Reflective blue
Power supplies list:		Electromagnetic shielding	Faraday cage in sensible zone and antistatic windings on transformers Three (3) independant internal steel magnetic shield sub-boxes layered with mu-metal
1) Auxiliary relay control: 100,600µF/12VDC medical filtering & solid state regulation		Capacitor brands	Solen PA, Mundorf/125 Deg, Nichicon/105 Deg
2) Auxiliary logic control: 114,000µF/5VDC medical filtering & solid state regulation		Processors	One (1) Pic
3) Volume control: 1,511µF/22VDC medical filtering & solid state regulation		Internal cabling	Silicon insulated tin plated OFC, Supra Lorad 3 x 1.5 mm tin plated OFC
4) Volume control: 1,511µF/-22VDC medical filtering & solid state regulation		Casing	Brushed aluminum -7 mm alloy chassis with quick access rail system, Faraday-cage Effect and no apparent screw.
5) High voltage preamplifier: 937µF/(MAX 220)VDC medical filtering & all tubes regulation		Front panel	19 mm solid white enamelled front panel. RAL color available in option
6) 5AR4 filament preamplifier: 10µF/5VAC medical filtering		Access Security	Front access drawer-motion access Rear lock with key
7) 6V6 filament preamplifier: 10µF/6.3VAC medical filtering		Base	7 mm Brushed aluminum alloy on 20 mm Labradorite semi-precious stone; Soundcare feet. Microphonic vibration neutralizer
8) 12AX7 filament preamplifier: 10µF/6.3VAC medical filtering		Power supplies filters	5 upon the IEC-60601-1 medical norm
9) 6922 filament preamplifier: 139,451µF/12.6VDC medical filtering & solid state regulation		Total Capacitive reserve	Quark (>762,848µF) Boson (>570,848µF)
10) Amplifier input stage: 26,400µF/22VDC medical filtering & Kelvin solid state regulation		Transformers	15 secondary windings in three independent units for a total of 840VA or 1085VA
11) Amplifier input stage: 26,400µF/-22VDC medical filtering & Kelvin solid state regulation		Maximum power consumption	Quark 840W, Boson 1085W
12) Amplifier output stage (Quark): 176,004µF/(MAX 60)VDC Kelvin solid state regulation		Inrush power consumption	Softstart at 12.23A / 274W
Amplifier output stage (Boson): 80,004µF/(MAX 75)VDC Kelvin solid state regulation		Idle power consumption	2.46W
13) Amplifier output stage (Quark): 176,004µF/(MAX -60)VDC Kelvin solid state regulation		Ombilical cabling	Double (2) ten (10) conductors tin plated OFC shield and tin plated OFC conductors cables, double insulated with polyurethane and polypropylene. Two (2) cables of one (1) meter and two (2) of two (2) meters supplied.
Amplifier output stage (Boson): 80,004µF/(MAX -75)VDC Kelvin solid state regulation		Ombilical Connectors	Shielded chrome and cadmium metal alloy 10 pins circular locking military connectors
		Supply voltage factory set	Ameriques, Europe, others
		AC mains input	IEC with a two (2) meters Supra cable
		Weight (per unit)	83.2 lbs / 37.74 kg
		Dimensions (W x H x D)	438 mm x 435 mm x 305 mm
		20mm vibration damping slab of Blue Pearl labradorite	
		Packaging	Pelican Protector 673 x 673 x 641mm
		Assembly	Handmade in Canada by Eon Art
		Casing assembly	Handmade finish and assembly by Oracle Audio Technologies
		Quality control	Five-level procedure
		Product certification	Audio Precision and Rigol acquisition analyser
		Musical quality	Listening session for each product
		Availability	50 units per year, numbered edition

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