



# E-Glo Petit B

**High-End balanced and fully discrete tube-hybrid phono stage**

Colour options:  

Magnetic side panel options:  

- **NEW** balanced XLR input for MM & MC cartridges
- **NEW** balanced XLR output
- **NEW** fully symmetrical and discrete gain stage
- Hybrid tube design with 2 x ECC83S tubes
- Fully discrete circuitry - no IC opAmps
- Precise split-passive RIAA equalisation
- Dual mono design
- Advanced power supply
- Small and compact form factor
- Magnetic side panel options:  
high gloss Makassar or piano Black
- Dimmable & colour changeable tube LED  
backlighting
- Available in silver or black
- Handmade in Europe

**Input impedance MM (high):**

30k, 36k, 42k, 47k, 53k, 59k 65k, 75k Ohm

**Input impedance MC (low):**

10R, 18R, 43R, 75R, 150R, 300R, 600R, 1k2 Ohm

**Load capacity MM:**

50pF, 150pF, 270pF, 370pF, 520pF, 620pF

**Output impedance:**

100 Ohms/RCA; 2x100 Ohms/XLR

**Gain (+ 6dB using XLR Out sockets):**

40dB, 45dB, 50dB, 55dB, 65dB, 70dB

**Signal to noise Ratio: MM > 92dBV (102dBV - IEC -A),**

MC > 80dBV (90dBV - IEC -A)

**THD, MM / MC: MM < 0,006% / 1V RMS (40-55dB)**

MC 0,05% / 1V RMS (65-70dB)

**RIAA accuracy: within 0,5dB/20Hz - 20kHz**

**Subsonic: 8dB/Octave**

**Power supply :** 230V/115 VAC selectable on the back panel, 50/60Hz /52VA

**Input / Output:** RCA, XLR

**Consumption:** 17W maximum, <0.5 W in standby

**Dimensions (WxHxD):** 186 x 87 x 262 mm

**Weight:** 2 700 g without power supply

## The E-Glo Petit B: „B” stands for Balanced

**New** in the E-Glo Petit B: it employs a **fully balanced gain stage design**. Connect your turntable to the **XLR input** and **profit of the balanced signal path**. Symmetrical, or also called balanced, transmissions consist of a hot and a cold (also called + and -) signal. Both signal chains effectively carry the same musical information. A **balanced gain stage** can now **extract the final musical information** out of the +/- signals and **subtract, remove, all noise** that could potentially be added along the transmission. As there are **two separate signal chains**, we also needed **two individual amplifier sections**.

MC cartridges or balanced MM cartridges\* are a necessity for fully balanced operation, and the new XLR inputs enable you to reach new levels of **pristine phono amplification without any added interference** and unprecedented **low noise floor**.

**\*Please note:** typical MM cartridges are not compatible with balanced phono stages as they will exhibit increased noise in the right audio channel due to the grounding of the internal cartridge generator. Modified, special „balanced” versions of MM cartridges are available and only those MM cartridges should be used with the balanced inputs of the

E-Glo F B. Of course, any type of MM cartridge (balanced and unbalanced) can be used on the regular single-ended RCA inputs. Please consult your dealer or E.A.T. representative for further information.

## Hybrid Tube Topology

The **first stage**, the aforementioned **balanced gain stage**, consists of **three discrete semiconductor operational amplifiers**. After treating the balanced signals symmetrically, they are added back together and processed by the **first of the two discrete RIAA equalisation stages**. By keeping the **gain stage fully symmetrical** the **signal to noise ratios are optimized**, giving the **EQ section the best source** to work its magic on.

The **second stage** is a single-ended **hybrid tube-transistor amplifier** composed of the **two ECC83S triodes** and one transistor. This stage includes the **second RIAA EQ** and a switchable **subsonic-filter**.

The **output stage** is made up of a **dual discrete semiconductor operational amplifier** that converts the **unbalanced signal to a balanced** one and ensures a **low output impedance** of the preamplifier. Low DC offset at the outputs is maintained by dedicated **DC servo circuits**.



## Discrete Circuitry

The E-Glo Petit B uses **fully discrete** audio circuitry throughout its complete design. A discrete circuit is composed of electronic components which are disparate, individual devices, also called discrete components.

**Countless hours of listening tests** and years of experience have shown us that even the very best **IC (integrated chip) Op-Amps do not tend to be so neutral, natural, dynamic or vivid.** Standard phono pre-amplifiers with integrated circuits have a few tens or hundreds of components, but **discrete designs** will employ **hundreds or thousands** of components by comparison.

## External Power Supply

The E-Glo Petit B is powered from an **external advanced power supply.** It is important to keep all the parts which can **radiate electromagnetic fields out of the amplifier range.** This is the reason why an **outboard power supply** is used. Due to legal requirements, this power supply must be a switch mode type with guaranteed **stand-by mode power consumption <0,5W.**

An **outboard power supply with linear construction is even better,** because it can offer much cleaner power. When you want to manufacture such clean and really **high-end power supplies,** you have to use a **transformer** with a **very low core saturation** and preferably with **shielding between primary and secondary windings.**

## EAT LPS 2 -

### elegant linear power supply Upgrade

Low core saturation **decreases radiation** of the outer electromagnetic field which can be inducted into sensitive circuitry. Shielding between windings work as a very **efficient filter** which effectively **suppresses interference** from mains. When it is combined with a **DC-blocker** which avoids the saturation of a core by DC current, the resulting **filtration is even better.** The mechanical **vibration of the transformer** is also **reduced.** It is critical that the transformer in use is also vacuum impregnated.

Obviously, such a transformer becomes **larger than one would expect.** Also, much **more expensive.** That is why such a power supply requires a cabinet the **size much bigger than the E-Glo Petit B** itself. The location of the power supply **shouldn't be close** to it and additionally, the E-Glo Petit B shouldn't be **exposed to big transformers** in power amplifiers or other appliances which can cause electromagnetic interference either. **Strong electromagnetic fields** from big transformers **in very close proximity** can even **penetrate** the heavy metal/aluminium chassis of the E-Glo Petit B. Even a chassis like this has its limits! The best arrangement is to keep the E-Glo Petit B as far away as possible from those harmful electromagnetic fields.

The **EAT LPS 2** represents another **big step up** for your **phono performance.**



### Cartridge Loading Options

**Two turntables** can be connected at the same time & easily set-up on the top panel. Each input settings are stored in the memory.

Large ranges from **40dB up to 70dB** are possible. A **fully balanced design** makes all the difference here, handling amplification levels this high. The E-Glo Petit B can be **perfectly matched** with a wide variety of cartridges and perfectly integrated into any Hifi system, matching the volume levels accurately to other sources like CD players or streaming devices. The **RCA and XLR outputs** can be **used at the same time** for extra flexibility when **connecting multiple audio systems**.

**Two load impedance ranges** - high and low - are available. When switched to „low“, standard **MC options** can be accessed and, in a bit of an unusual manner, the E-Glo Petit B even provides a „high“ setting. That way, even the load impedance for **MM cartridges** can be fine tuned, not forcing you to stick with the typical 47k Ohms setting that is usually found elsewhere.

### A Feast For The Eyes

The handsomely styled E-Glo Petit B is housed in a **full aluminium chassis**, its valves peering through with new **selectable valve illumination**. Across the front section are rows of switches for instant access to all settings – no need to „get inside“ to set the E-Glo Petit B for your cartridge of choice.

**NEW optionally available magnetic side panels**, available in real wood makasser or piano black, offer additional style for your E-Glo Petit B.

