

Mesa Boogie Rosette Acoustic Amplifier  
P-12 Phantom Power Compatability Chart  
Updated: 5/22/2017

| Brand                 | Model                              | P-12<br>Compatible | P-24<br>Compatible | P-48<br>Compatible | Phantom/Power<br>Current |
|-----------------------|------------------------------------|--------------------|--------------------|--------------------|--------------------------|
| <b>ADK</b>            | Most Models                        | no                 | no                 | no                 | varies                   |
| <b>AKG</b>            | C7                                 | no                 | no                 | yes                | 3mA                      |
|                       | C12                                | yes                | yes                | yes                | 115/230V                 |
|                       | C414 (ULS & TL-II)                 | yes                | yes                | yes                | 2mA                      |
|                       | C414 (new style electronic switch) | no                 | no                 | yes                | 4.5mA                    |
|                       | C451 (original and newer EB)       | yes                | yes                | yes                | 2mA                      |
|                       | C214                               | yes                | yes                | yes                | 2mA                      |
|                       | C314                               | no                 | no                 | yes                | 3mA                      |
|                       | C1000                              | yes                | yes                | yes                | 3mA                      |
|                       | C3000                              | yes                | yes                | yes                | 2mA                      |
|                       | P820 Tube                          | yes                | yes                | yes                | 115/230V                 |
|                       | P120/220/420                       | no                 | no                 | yes                | 3mA                      |
|                       | P170                               | no                 | no                 | yes                | 3mA                      |
|                       | DAM series                         | yes                | yes                | yes                | (configure)              |
|                       | CGN series                         | yes                | yes                | yes                | 3mA                      |
|                       | C519M/ML                           | yes                | yes                | yes                | 2mA                      |
|                       | CK91/92/93/94/98                   | yes                | yes                | yes                | 2mA                      |
|                       | SE300B                             | yes                | yes                | yes                | 1.9mA                    |
|                       | C480 (system)                      | no                 | no                 | yes                | 2mA                      |
|                       | C426                               | yes                | yes                | yes                | 2mA                      |
|                       | C460                               | yes                | yes                | yes                | 1mA                      |
|                       | C535                               | yes                | yes                | yes                | 1mA                      |
|                       | C568                               | yes                | yes                | yes                | 1mA                      |
| <b>Astatic</b>        | 910/915/920                        | yes                | yes                | yes                | 5mA                      |
|                       | VP1600/1700/1800                   | yes                | yes                | yes                | 4mA                      |
| <b>Audio Technica</b> | AE2500                             | yes                | yes                | yes                | 3mA                      |
|                       | AE3000                             | yes                | yes                | yes                | 3mA                      |
|                       | AE3300                             | yes                | yes                | yes                | 3mA                      |
|                       | AE5100                             | yes                | yes                | yes                | 3.2mA                    |
|                       | AE5400                             | yes                | yes                | yes                | 4mA                      |
|                       | ATM710                             | yes                | yes                | yes                | 3.5mA                    |
|                       | ATM250DE                           | yes                | yes                | yes                | 3.5mA                    |
|                       | ATM-35/350/450                     | yes                | yes                | yes                | 3.5mA                    |
|                       | PRO 35/37                          | yes                | yes                | yes                | 2mA                      |
|                       | MB 4k                              | yes                | yes                | yes                | 2mA                      |
|                       | AT2010/2020                        | no                 | no                 | yes                | 2mA                      |
|                       | AT2035                             | yes                | yes                | yes                | 3.8mA                    |
|                       | AT2050                             | yes                | yes                | yes                | 4.7mA                    |
|                       | AT40 series                        | no                 | no                 | yes                | 3-4.2mA                  |
|                       | AT4060                             | yes                | yes                | yes                | 120/230V reqd.           |
|                       | AT4071a/4073a                      | yes                | yes                | yes                | 3.2mA                    |
|                       | AT8015/8035                        | yes                | yes                | yes                | 2mA                      |
|                       | AT875R/897                         | yes                | yes                | yes                | 2mA                      |
|                       | AT8010/8031/8033                   | yes                | yes                | yes                | 2mA                      |
|                       | ES900 series (all)                 | yes                | yes                | yes                | 2-4mA                    |
|                       | U800 series (all)                  | yes                | yes                | yes                | 2-4mA                    |
|                       | PRO 42/4545/ 47/49                 | yes                | yes                | yes                | 2mA                      |
| <b>Audix</b>          | F9                                 | yes                | yes                | yes                | not given                |
|                       | ADX Series (all)                   | yes                | yes                | yes                | not given                |
|                       | Micro/MB Series (all)              | yes                | yes                | yes                | not given                |
|                       | F90                                | yes                | yes                | yes                | not given                |

|                |                              |                    |                    |                    |                     |
|----------------|------------------------------|--------------------|--------------------|--------------------|---------------------|
|                | UEM-81                       | yes (with battery) | yes (with battery) | yes (with battery) | (internal battery)  |
| Behringer      | C1/2/3/4                     | maybe              | maybe              | yes                | 3mA                 |
|                | B5                           | maybe              | maybe              | yes                | 3mA                 |
|                | ECM-8000                     | yes                | yes                | yes                | not given           |
| Beyer          | MC 840                       | yes                | yes                | yes                | 4.6mA               |
|                | MC 910                       | yes                | yes                | yes                | 4.6mA               |
|                | MC 930                       | yes                | yes                | yes                | 4.6mA               |
|                | MC 950                       | yes                | yes                | yes                | 4.6mA               |
|                | TG 153                       | yes                | yes                | yes                | 4.7mA               |
|                | TGD 57/58 (w/ clamp)         | yes                | yes                | yes                | 4.7mA               |
|                | MCE 85                       | yes                | yes                | yes                | 3.7mA               |
| Blue           | Analog models                | no                 | no                 | yes                | not given           |
|                | USB/Lightning models         | no                 | no                 | no                 | USB only            |
| CAD Audio      | D84                          | no                 | no                 | yes                | 4mA                 |
|                | E-100S, E-300S               | no                 | no                 | yes                | 8mA                 |
|                | E-60                         | maybe              | yes                | yes                | 6mA                 |
|                | E-48                         | maybe              | maybe              | yes                | 2mA                 |
|                | GXL-1200 silver              | yes                | yes                | yes                | 2mA                 |
|                | GXL-1200 black pearl         | maybe              | maybe              | yes                | 2mA                 |
|                | GXL series LDC               | no                 | maybe              | yes                | 4mA                 |
|                | C-95, C-195                  | yes                | yes                | yes                | 2mA                 |
| DPA Microphone | d:vote mini-instrument (all) | yes                | yes                | yes                | w/ DPA adapt        |
|                | d:vote mini-instrument       | yes                | yes                | yes                | (non-std connector) |
| Earthworks     | All Models                   | no                 | yes                | yes                | 10mA                |
| Electrovoice   | BK-1                         | yes (with battery) | yes                | yes                | (internal battery)  |
|                | PL-37                        | yes                | yes                | yes                | not given           |
|                | ND-66                        | no                 | no                 | yes                | not given           |
|                | RE-410                       | no                 | yes                | yes                | not given           |
|                | RE-920                       | yes                | yes                | yes                | with TXA adapter    |
|                | RE-90P                       | yes                | yes                | yes                | not given           |
|                | 1777A                        | yes (with battery) | yes                | yes                | (internal battery)  |
| MXL            | MXL V63MBP                   | yes (with battery) | yes (with battery) | yes (with battery) | (internal battery)  |
|                | All Other Models             | no                 | no                 | yes                | varies              |
| Nady           | SPC-25                       | yes (with battery) | yes (with battery) | yes (with battery) | (internal battery)  |
|                | CM-88                        | yes                | yes                | yes                | not given           |
|                | CM-90                        | maybe              | maybe              | yes                |                     |
|                | CM-95                        | maybe              | maybe              | yes                |                     |
|                | SCM-1000                     | maybe              | maybe              | yes                | not given           |
|                | SCM-1200                     | maybe              | maybe              | yes                | not given           |
|                | SCM-550                      | maybe              | maybe              | yes                | not given           |
|                | SCM-700                      | yes                | yes                | yes                | 3mA                 |
|                | SCM-800                      | maybe              | maybe              | yes                | not given           |
|                | SCM-900                      | maybe              | maybe              | yes                | not given           |
|                | SCM-960                      | maybe              | maybe              | yes                | not given           |
| Neumann        | All Models                   | no                 | no                 | yes                | varies              |
| Rode           | NT1/1-A/2-A                  | no                 | yes                | yes                | not given           |
|                | NTR                          | no                 | no                 | yes                | not given           |
|                | NT1000/2000                  | no                 | yes                | yes                | not given           |
|                | NT3                          | yes                | yes                | yes                | not given           |
|                | K2/NTK                       | yes                | yes                | yes                | 115/230V            |
|                | NT5                          | no                 | yes                | yes                | not given           |

|                        |                             |                    |                    |                    |                    |
|------------------------|-----------------------------|--------------------|--------------------|--------------------|--------------------|
|                        | NT55                        | no                 | no                 | yes                | not given          |
|                        | NG4                         | yes                | yes                | yes                | not given          |
|                        | NG4+                        | no                 | no                 | yes                | not given          |
|                        | M3                          | yes (with battery) | yes (with battery) | yes                | not given          |
|                        | M2/M5                       | no                 | yes                | yes                | not given          |
| <b>Royer</b>           | All Phantom Powered Ribbons | no                 | no                 | yes                | 4mA                |
| <b>SE Designs</b>      | All Models                  | no                 | no                 | yes                | not given          |
| <b>Samson</b>          | All Models                  | no                 | no                 | yes                | not given          |
| <b>Sennheiser</b>      | e 614                       | yes                | yes                | yes                | 3mA                |
|                        | e 865                       | yes                | yes                | yes                | not given          |
|                        | MK4                         | no                 | no                 | yes                | 3.1mA              |
|                        | e 908                       | yes                | yes                | yes                | 3mA                |
|                        | e 914                       | no                 | no                 | yes                | 2.2mA              |
|                        | e 965                       | no                 | no                 | yes                | 3.5mA              |
|                        | MEG series                  | yes                | yes                | yes                | not given          |
|                        | MKH 800                     | no                 | no                 | yes                | 3mA                |
|                        | MHK 40                      | no                 | no                 | yes                | 2mA                |
| <b>Shure</b>           | SM-86                       | yes                | yes                | yes                | 1.3mA              |
|                        | SM-87 (all versions)        | yes                | yes                | yes                | 1.3mA              |
|                        | SM-27                       | no                 | no                 | yes                | 5.4mA              |
|                        | SM-137                      | no                 | no                 | yes                | 5.2mA              |
|                        | SM-81                       | yes                | no                 | yes                | 1.2mA              |
|                        | SM-94                       | yes                | yes                | yes                | not given          |
|                        | Beta 181                    | yes                | yes                | yes                | 2.4mA              |
|                        | Beta 98A                    | yes                | yes                | yes                | 3.6mA              |
|                        | Beta 27                     | no                 | no                 | yes                | 5.6mA              |
|                        | Beta 87 (all versions)      | yes                | yes                | yes                | 1.2mA              |
|                        | KSM9                        | no                 | no                 | n                  | 4.4mA              |
|                        | KSM42                       | yes                | yes                | yes                | 6.2mA              |
|                        | KSM44                       | yes                | yes                | yes                | 5.8mA              |
|                        | KSM32                       | no                 | no                 | yes                | not given          |
|                        | KSM137                      | no                 | no                 | yes                | not given          |
|                        | KSM141                      | no                 | no                 | yes                | not given          |
|                        | CVG series                  | yes                | yes                | yes                | 2mA                |
|                        | MX/Mxa series               | yes                | yes                | yes                | 2mA                |
|                        | PGA181                      | no                 | no                 | yes                | 4mA                |
|                        | PGA27                       | no                 | no                 | yes                | 3.9mA              |
|                        | PGA81                       | yes                | yes                | yes                | 2mA                |
|                        | PGA98H                      | yes                | yes                | yes                | 2mA                |
|                        | BG 4.0                      | yes                | yes                | yes                | 2mA                |
|                        | BG 4.1                      | yes                | yes                | yes                | 2mA                |
|                        | BG 5.0                      | yes                | yes                | yes                | 2mA                |
|                        | PG 81                       | yes                | yes                | yes                | 2mA                |
| <b>Sony</b>            | C38B                        | yes (with battery) | yes                | yes                | (internal battery) |
|                        | ECM-23                      | yes (with battery) | yes                | yes                | (internal battery) |
| <b>Studio Projects</b> | All Models                  | no                 | no                 | yes                | 2.5mA typ          |
| <b>Tascam</b>          | TM-280                      | no                 | no                 | yes                | not given          |
|                        | TM-280                      | no                 | no                 | yes                | not given          |
|                        | TM-80                       | yes                | yes                | yes                | not given          |
|                        | TM-60                       | yes (with battery) | yes (with battery) | yes (with battery) | (internal battery) |
|                        | TM-PC1                      | yes                | yes                | yes                | 3mA                |
| <b>Warm Audio</b>      | WA-87                       | no                 | no                 | yes                | not given          |

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|  |                                                                                                               |
|--|---------------------------------------------------------------------------------------------------------------|
|  | Yes, P-12 compatible based on manufacturer's documentation and/or in-hand testing                             |
|  | Maybe, P-12 compatible based on similarity with other models electronics and/or successful user reports       |
|  | Not P-12 compatible based on manufacturer's documentation but has not been tested and may still be compatible |

#### Notes:

1. The Rosette Acoustic Amplifier's MIC INPUT channel provides P-12 (12V) phantom power. Dynamic mics do not use phantom power and will ignore its presence, all will work with or without phantom power switched on.

2. Most condenser mics will work with P12, P-24 and P48 phantom standards, the above chart will help guide the likelihood of compatibility, and it should be noted that in many cases, even though a condenser mic's specs state P-48 or P-24 & P-48 only, they may still operate well on P-12. This is because many condensers are back-electret or not externally polarized, and also because many are spec'd for extreme SPL levels well in excess of what an acoustic instrument can generate.

3. The above chart is based on manufacturer's data where available, and archive data for older or discontinued products. Where the chart indicates "MAYBE", this means that there have been successful users of this microphone on P-12 but the manufacturer does not state its support in the documents. The same could apply to the "NO" category as well, but no successful history was available.

4. Ribbon microphones... no discussion of phantom power would be complete without mentioning the POSSIBILITY of damage occurring when using phantom power with a ribbon mic. Generally, there is no problem and most manufacturers of ribbon mic products support this thought, but there are two specific instances where there could be a problem that are responsible for the "damage scenario". The first does not apply to the Rosette, but involves the use of patch bays (studio or live) between the mic and the console (providing phantom power). When the patch cable is inserted into the patch bay, there is a momentary short circuit between ring and ground while the tip is energized, placing phantom power directly across the fragile ribbon (possibly damaging it). Since there is no chance of this happening with the Rosette, this is purely an informational statement. The other way that damage can occur, is if a ribbon mic is connected to the mic input with phantom power on, and there is a short circuit between either pin 1 and pin 2, or between pin 1 and pin 3, this also places phantom power across the ribbon (possibly damaging it). For this reason, an internal phantom power "on/off" switch is provided on the PCB at the back left corner. The green phantom power LED under the mic's input jack indicates the status of the phantom power source.

5. When using condenser mics, the phantom power must be switched on (ships from the factory this way) and the green LED will illuminate.

6. Condenser mics that are either 115/230V powered through an external supply, or are battery powered (either internal or through an external battery pack supply) do not require phantom power to operate.

7. If a player wishes to use a mic requiring P-48 phantom power, no worries. There are a variety of external phantom power supplies available that will generate P-48 to the mic while passing the signal through to the Rosette. Below is a selection of suitable P-48 phantom supplies.

ART Phantom I or II Pro

Audio Technica AT-8801

Audix APS2

Behringer PS400

Denecke PS-1A

Marantz Phantom Pack

Nady SMPS-1X

Palmer PAN48

Radial SB-48

Rolls PB23/223

Rolls PB24/224

Sterling PHP1

Whirlwind MicPower 2