



Intercom for Sound, Lighting and Production Professionals

PS3 Battery Adaptor

Operating Instructions & Connections

Caution:

Never try to operate a Pro Intercom system directly from batteries. A short-circuit anywhere in the system could draw the entire amperage available from the batteries through the system, destroying components, cable and possibly causing fire. Also, there would be no 200 termination point for the comms circuit resulting in feedback, distortion and erratic sidetone. The PS3 was designed to solve both those problems

The PS-3 allows you to safely power your cabled Pro Intercom (or compatible) system from batteries. Typically a pair of 12V batteries are wired in series to provide 24V, then connected to the PS-3. Best (because of size, weight, and recharge ability) are computer Uninterruptible Power Supply (UPS) batteries, but auto or other rechargeable batteries may be used. **Using a pair of 12V batteries, as opposed to one 24V battery, gives you a wide choice of recharging devices.** Time between recharging will depend upon the number of stations connected and the capability of the charger, but as an example, a pair of 150 Ampere/hour batteries would power ten belt packs, with their signal lights constantly *On*, for over 1000 hours. (A pair of Eveready® 732 12V 700mAh non-rechargeable lantern batteries may be used. These are available at Batteries Plus®, Amazon® and many other sources.) The system can be operated minimally on 12VDC but audio quality, distance between stations and the signaling system will be adversely affected. The minimum voltage for acceptable performance is 18V

The front panel contains a pair of binding posts for attachment of the batteries.

Although the binding posts are colored red and black, an internal circuit corrects accidental reverse polarity. The rear panel contains three 3-pin male XLR-type connectors, wired in parallel, for connecting belt packs or other stations to the **single-circuit system**. (A dual circuit system can be created by connecting an SB2 Splitter/Isolator to the PS3) The PS-3 provides the necessary 200 termination circuit for the comms line, to maintain stability as stations are added or removed from the system.

A high-quality, Swiss-made, very fast circuit breaker acts as the *On/Off* switch and limits the current which may be drawn by the system from the batteries to a safe 1.0 Amp. (sufficient to supply more than 20 beltpacks) This very important feature can prevent a short from drawing the full current of the batteries into the intercom system instantly, destroying components and creating a fire hazard.

Technical Specifications: (Subject to change without notice.)

Power requirement: 18~24 VDC from batteries
Power output: 1.0 Amp maximum, 30V peak
Audio bridging impedance: 200 unbalanced.
Dimensions: 3.70 x 4.30 x 2.50 in. (93.98 x 109.22 x 63.5 mm.)
Weight: 14.5 oz (0.411 kg.)

Batteries and charger are NOT included.

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