



Professional Broadcast Equipment

PAGlok Power Module

Model No.'s 9661 & 9663

Instruction Manual

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SECTION 1

INTRODUCTION

- 1.1 The PAGlok Power Module is a compact unit which can utilise up to three batteries to supply continuous power for editing equipment, remote cameras or microwave links.
- 1.2 Two PAGlok Power Modules can be linked together, allowing up to five batteries to be utilised.
- 1.3 Nickel-Cadmium, Nickel-Metal Hydride and Lithium-Ion batteries may be used. At no time are any two batteries electrically connected, allowing any mix of these chemistries to be used with the PAGlok Power Module.
- 1.4 Model No. 9663 incorporates the additional feature of an integral DC-DC converter, enabling the continuous powering of equipment which requires a 7.2V power source.

SECTION 2

SPECIFICATION

- 2.1 **Model Range:**
 Model No. 9661: Standard Model.
 Model No. 9663: As above but with 7.2V output.
 Model No. 9664: Interconnecting lead to link two Power Modules.
- 2.2 **Battery Voltage:**
 Nominal 13.2V and 14.4V. NOTE: 12V batteries may be used, but will be discharged by only 50% to 60%.
- 2.3 **Battery Type:**
 Nickel-Cadmium, Nickel-Metal Hydride or Lithium-Ion.
 NOTE: Lead-acid batteries are unsuitable for use with the PAGlok Power Module.
- 2.4 **Maximum Voltage:**
 20V.
- 2.5 **Output Rating:**
XLR-4 Output: Maximum continuous current 12A. The output is protected against short circuit and over-current.

7.2V Output (Model 9663): Maximum continuous current 1.5A. The output is protected against short circuit and over-current.

2.6 Connections:

PAGlok: Patented professional locking connector compatible with all PAGlok batteries. Incorporates self-cleaning military-type beryllium-copper leaf contacts.

Remote Input:

XLR-4 male: Pin 1 negative, Pin 4 positive, Pins 2 & 3 sense.

XLR-4 Output:

XLR-4 female: Pin 1 negative, Pin 4 positive, Pins 2 & 3 sense.

NOTE: The PAGlok Power Module Interconnecting Lead (Model No. 9664) has a special wiring configuration to delineate master/slave Module configuration.

7.2V Output (Model No. 9663):

Pin 1: positive, Pin 2: no connection, Pin 3: negative.

2.7 User Interface:

The unit is provided with a Power switch which enables the output power to be turned on or off. Battery status is shown by LED indicators.

2.8 Changeover Voltage:

The unit will switch the output instantaneously from a nominally discharged battery to a nominally charged battery when the voltage on the discharged battery reaches 11.71V (2%). At no time are any two batteries connected together.

2.9 Safety:

The Power Module is designed to be operated at Safety Extra Low voltage.

2.10 European Union Directives:

Complies with EMC Directive 89/336/EU. The Power Module is designed to be operated at Safety Extra Low voltage and therefore falls outside the scope of the EU Low Voltage Directive.

2.11 Operating Temperature Range:

0°C to 40°C (+32°F to +104°F).

2.12 Overall Dimensions (H x W x D):

135 x 115 x 55mm (5.3" x 4.5" x 2.1" approx.).

2.13 Weight:

410gm (0.9lbs approx.).

SECTION 3

OPERATING INSTRUCTIONS

3.1 Ensure that the Power switch is set to OFF (0).

3.2 Battery Connection - Single Power Module:

IMPORTANT: Use 12V to 14.4V batteries ONLY.

Connect charged batteries to the Power Module. Up to three batteries may be connected to the Module, using the two PAGlok connectors and the XLR-4 male connector labelled 'REMOTE INPUT'.

3.3 Battery Connection - Two Power Modules:

IMPORTANT: Use 12V to 14.4V batteries ONLY.

Connect the 'OUTPUT' of one Power Module (which now becomes the 'slave' unit) to the 'REMOTE INPUT' of the other unit (which now becomes the 'master' unit) using Power Module Interconnecting Lead Model No. 9664. This lead incorporates a special wiring configuration which identifies the 'master/slave' relationship of the two units. Connect charged batteries to the Power Modules. Up to five batteries may be connected, using the four Paglok connectors and the connector labelled 'REMOTE INPUT' which is available on the slave unit.

3.4 Connect the equipment to be powered to the connector labelled 'OUTPUT'.

NOTE: Model 9663 incorporates a 7.2V output facility, which may be used concurrently with the standard XLR-4 output. When using two Power Modules, do not use the 7.2V output on the slave unit.

3.5 Turn the Power switch to ON (-). One of the batteries will be connected to the output, and the LED for that channel will flash.

3.6 The LED for any other channel that has a battery connected will be lit continuously (non-flashing).

3.7 The LED for any channel that does not have a battery connected will not be lit.

3.8 When a battery becomes discharged down to the changeover voltage, the LED indicator for that channel will be extinguished, and the next battery will be instantaneously connected to the output. The LED indicator for that channel will then commence to flash.

- 3.9 The sequence will continue until all the connected batteries have been used.
- 3.10 Batteries may be disconnected and others connected as necessary to enable continuous running to be achieved.
- 3.11 A carrying strap is provided with each Power Module. Each end of the strap is fitted by locating it over the mushroom lug and pulling upwards to lock it in place. Removal of the strap is achieved by reversing the above procedure.

SECTION 4

CARE & MAINTENANCE

- 4.1 The Power Module is not intended for any use other than the sequencing of battery power output as detailed in Section 2 'Specification'.
- 4.2 Use only with batteries of the correct rating. See Section 2 'Specification'.
- 4.3 Ensure that the ventilation slots are not obstructed when in use, e.g. do not site on a deep pile carpet, or cover when in use.
- 4.4 The Power Module is extremely rugged and designed for arduous service conditions, but it should not be used if it has received a severe drop or blow, or been otherwise damaged in any way. It should be returned to your local dealer, or direct to PAG Ltd., London, for service or repair.
- 4.5 Unqualified personnel should not attempt disassemble the Power Module (see paragraph 4.1 above). Any such interference would invalidate the guarantee and invariably cause more damage than the original fault. There are no user-serviceable parts inside, and incorrect reassembly may result in a safety hazard.
- 4.6 In the unlikely event of a fault developing, seek advice from your nearest PAG dealer or direct from PAG Ltd., London, by telephoning +44 (0)20 8543 3131.

SECTION 5

WARRANTY

- 5.1 Notwithstanding any provision of any agreement the following warranty is exclusive: PAG Limited warrants each PAGlok Power Module it manufactures to be free of defects in material and workmanship under use and service for two years from the date of purchase. This warranty extends only to the original purchaser. This warranty shall not apply to fuses or any product or parts which have been subject to misuse, neglect, accident or abnormal conditions of operation.
- 5.2 In the event of failure of a product covered by this warranty, PAG Limited will repair and calibrate equipment returned to an authorised Service Facility within the period of the warranty, provided the warrantor's examination discloses to its satisfaction the product was defective. The warrantor may, at its option, replace the product in lieu of repair. With regard to any equipment returned within this period, said repairs or replacements will be made without charge. If the failure has been caused by misuse, neglect, accident or abnormal conditions of operation, repairs will be billed at a nominal cost. In such a case, an estimate will be submitted before work is started, if requested.
- 5.3 The foregoing Warranty is in lieu of all other warranties, express or implied, including but not limited to any implied warranty of merchantability, fitness or adequacy for any particular purpose or use. PAG Limited shall not be liable for any special, incidental, or consequential damages, whether in contract, tort, or otherwise.