

Alphapack 3 dimmer User Manual

Version 1.0



Introduction

Alphapack 3 range are 3 channel fully portable dimmer units, which can be safely secured to a stand or truss with the use of a hookclamp or half coupler, connected to either of the M10 threaded mounting holes on the top and rear of the unit. Alternatively the optional mounting bracket (sold separately) allows Alphapack 3 to be mounted onto a wall or piece of scenery.

This compact and rugged unit has 3 faders for local control, or can be controlled remotely as part of a larger lighting system. The Alphapack 3 offers full DMX control input providing maximum flexibility for a great price. A unique safety system and overload protection circuit means that the Alphapack 3 provides an extremely safe and reliable solution to small dimming applications, never allowing the dimmer loads to draw more current than is available from the supply.

Mechanical information

Always observe the operating environment information in the Mechanical information. If this environment is exceeded, it is likely that damage will occur to your Alphapack 3.

Dimensions

336mm (H) x 245mm (W) x 82mm (D)

Weight

3.7kg

Operating temperature range

+5 to +40°C






Humidity

5% to 95% non-condensing

Power input

The Alphapack 3 is designed to operate on 200 – 250V single phase AC supply at 50Hz. The Alphapack 3 may not operate satisfactorily outside these conditions.

Power Input	Via fixed 3m cable
Max Current	Limited to 16A (+/- 1.5A)
No Load consumption	6W
Min Input Impedance	80kΩ
Earth Leakage	<1mA

-  This product must be earthed
-  Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord.
-  Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan
-  Apparatet må tilkoples jordet stikkontakt
-  Apparaten skall anslutas till jordat uttag

Channel faders

Each of the Alphapack 3's channels can be controlled using the three local faders on the front panel. These are always enabled, and work on a "highest-takes-precedence" basis if DMX is also present.

DMX512 control

Alphapack 3 can be controlled using the local channel faders, or via a DMX512 signal. When both are used, the controls are mixed on a "highest-takes-precedence" basis.

The Alphapack 3 uses three DMX addresses – one for each of the channels. Addresses are always a sequential block of three addresses, starting at the "DMX Start Address".

DMX512 connectors

The input connector is via a 5 pin male XLR with loop-through on a 5 pin female XLR. The connections are:

Pin	Channel
1	0V
2	Data –
3	Data +
4	Not used (Linked between male and female connectors)
5	Not used (Linked between male and female connectors)

DMX start address switches

These three switches set the DMX start channel for the pack. One switch controls the "hundreds", another the "tens" and the other the "units". A small screwdriver or trim tool is required to adjust the address settings.

DMX OK LED

Off	No DMX data received
Slow flash	DMX data errors occurring
Fast flash	DMX data is being received, but is not dimmer data (start code non-zero)
On	DMX dimmer data is being received OK.

DMX Termination

No termination is provided on the Alphapack 3. Termination of the DMX line can be achieved by inserting a termination plug into the loop through connector.

DMX fail

In the event of the loss of DMX input, the outputs will fade to zero over 1 second. Please note that the channel faders will remain available.

Channel outputs

The Zero 88 Alphapack 3 is a three channel power controller capable of driving up to 6.3 amps of lighting control per channel.

Electrical

The total current consumption of the Alphapack 3 is 16 amps.

Load per channel	0.2A Min; 6.3A Max
Max. load per channel	1.44kW @ 230V
No Load consumption	6W

Each channel is protected by a 6.3amp ceramic 5mm x 20mm “F Type” fuse.

Autoprotection

A current detection circuit monitors the input current to the Alphapack 3 at all times to protect the machine from being inadvertently overloaded.

The total current limit for each machine is factory set as follows:

Socket Type	Current Limit
Danish	10 Amps
UK	13 Amps
CEE 22	10 Amps
Swiss	13 Amps
French	16 Amps
Schuko	16 Amps

Should an attempt be made to overload the Alphapack 3, the outputs of all three channels will be reduced, and the “Autoprotection activated” LED will be illuminated.

Load

The loads may be resistive or inductive and include tungsten, transformer driven low voltage and quartz halogen. Some highly inductive loads such as neon will require a ballast load of at least 100 Watts.

Fusing of Inductive Loads

All inductive loads (e.g. transformer driven lamps) must be fitted with a separate fuse of the correct value per lamp or fitting.

Failure to fit the correct fuse may mean that any supply disturbances could cause damage to the lamp’s transformer. A good earth connection is essential.

Basic maintenance

Alphapack 3 is designed to be relatively maintenance free, however a few simple steps can prolong the life of your hardware.

WARNING! - NO USER SERVICEABLE PARTS INSIDE

Cleaning the surface

Every month or so, gently wipe down the front panel with a nonabrasive, non-corrosive surface cleaner applied with a soft cloth.

Cleaning the faders

A can of compressed air can be used to clear our dust from the fader tracks. Do NOT use an oil based lubricant (such as WD-40) on faders as this will cause irreparable damage to your Alphapack 3.

Transportation & storage

Care should be taken when transporting Alphapack 3. The cardboard box which Alphapack 3 is supplied in is intended only for one or two journeys, and should not be relied upon to keep the dimmer safe for prolonged use.

Reporting a problem

Support requests can be submitted through our support forum at zero88.com/forum or via email to support@zero88.com

For more urgent requests, please contact Zero 88 by telephone on +44 (0)1633 838088 – 24 hour answer service available.

WARNING!

- ✓ Airflow should not be impeded by covering the ventilation openings with items such as curtains, costumes, cabling etc.
- ✓ No naked flame sources, such as lighted candles or pyrotechnics, should be placed on or near the apparatus;
- ✓ Alphapack 3 should not be exposed to dripping or splashing, and no objects filled with liquids, such as vases or drinks, should be placed on the apparatus.

Notes

Eaton reserves the right to make changes to the equipment described in this manual without prior notice.

This equipment is designed for professional stage lighting control, and is unsuitable for any other purpose. It should be used by, or under the supervision of, an appropriately qualified or trained person.

E&OE. Eaton reserves the right to change the specification without prior notice.

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