

## GENERAL SPECIFICATIONS

### DESCRIPTION

The Betapack 3 range of digitally controlled dimmer packs offers one of the most cost effective and versatile solutions to dimming currently available. Manufactured to the highest professional standards, this comprehensive range of 6 x 10 Amp packs includes variants with sockets to match most global standards. Designed to be rack mounted, installed or carried the Betapack 3 is suitable for a wide range of applications from Amateur to professional, School to TV studio.

### SPECIFICATIONS

- Number of channels : 6
- Channel capacity : 0.1A min / 10A max
- Total dimmer capacity : 60A
- Dimmer duty cycle: 100%
- Supply Voltage :
  - Single Phase (2 wire) 230V
  - Three Phase Star (4 wire) 250/444V
  - Three Phase Delta (3 wire) 230/115V
- Supply frequency : 50-60Hz auto tracking
- Rise time : 80 uS
- Control input : DMX via 5 Pin XLR fixed male with loop through connector with automatic termination, accepts USITT DMX512-A (isolated). Patch set via control interface
- Channel outlet options:
  - 12 x UK 15A Sockets
  - 12 x 16A Schuko Sockets
  - 12 x 16A French Sockets
  - 12 x 16A CEE17 Sockets
  - 18 x 10A Swiss Sockets
  - Hardwired with internal terminal connections
- Dimmer Laws : 3 dimmer laws (Normal, Linear, Switch).
- Patching : Full DMX patch and block address.
- Memories : 12 static
- Sequences : 3x 99 step programmable.
- User Interface : 7 segment display with navigation keys.
- DMX fail mode : DMX Hold, Fade to Black, Fade to Memory or Fade to Sequence.

- Programmable channel attributes: Preheat per channel (5%), Topset, Dimmer Laws.
- Channel protection : 10A single pole thermal magnetic circuit breaker (French version has neutral disconnect) per channel. Breaking capacity to 6000A
- Cooling : Convection via rear mounted heatsink with electronic temperature monitoring and progressive overheat shutdown.
- Dimensions : 440(W) x 175(H) x 195mm(D)
- Weight : 8Kg

### SUPPLIED ACCESSORIES

- Installation / Operating Instructions
- 2 x Wall / Rack mounting Brackets (fitted)

### ORDERING INFORMATION

- Betapack 3 Hardwired DMX: 00-307-03
- Betapack 3 UK DMX : 00-307-11
- Betapack 3 Schuko DMX : 00-307-21
- Betapack 3 Swiss DMX : 00-307-22
- Betapack 3 French DMX : 00-307-23
- Betapack 3 CEE17 DMX : 00-307-61



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## ENGINEERING SPECIFICATIONS

### ELECTRONICS

The dimmer unit shall provide 6 channels of dimming control, each channel rated at a maximum of 10A.

The dimmer channels shall be designed to run at 100% duty cycle.

The dimmer shall have a waveform rise time of 80  $\mu$ S for each circuit, and shall be capable of dimming resistive and inductive loads and dimmable electronic transformers, compatible with leading edge dimmers.

Each dimmer channel shall be protected by a 10A single pole thermal magnetic circuit breaker. French versions shall have neutral disconnect breakers. Circuit breakers shall have a 6000A breaking capacity.

DMX input shall be via a fixed 5 pin male XLR with a fixed 5 pin DMX loop through connector. The Dimmer shall accept USITT DMX512-A (isolated from electrical earth). The DMX start address for each channel shall be selectable via the user interface. A status indicator on the front panel shall provide information on DMX present and error conditions. DMX termination shall be automatic if no loop through connector is present. DMX failure options shall be set from the user interface and will provide for retaining last state, fade to black, fade to memory over 3 seconds or fade to sequence.

The dimmer shall provide three dimmer laws; normal, linear and switch, these can be selected using the user interface. It shall be possible to select a preheat on a per channel basis. The preheat value is 5%. It shall be possible to select a topset (limiting) value on a per channel basis.

It shall be possible to program 12 non-volatile memories using an output grab method. It shall be possible to link these 12 memories into 3 sequences of up to 99 steps each. Each sequence shall have programmable dwell and fade times.

It shall be possible to lock the dimmer to prevent setup changes. The dimmer shall include Reset and Test functions.

Dimmer outlets shall be via front panel mounted sockets complying with all local standards for the variant. Dimmer outlets on the hardwired version shall be via internal terminals, with separate live, neutral and earth connections for each channel.

The dimmer shall be convection cooled, requiring no forced air within its normal operating range. The internal temperature shall be electronically monitored, with outputs being progressively shutdown to prevent overheating.

### ELECTRICAL

The dimmer shall operate on single or three phase main supplies. Three phase supplies may be in Star or Delta configuration.

Power input shall be via five 16mm<sup>2</sup> terminals. For single phase operation a linking busbar shall be provided.

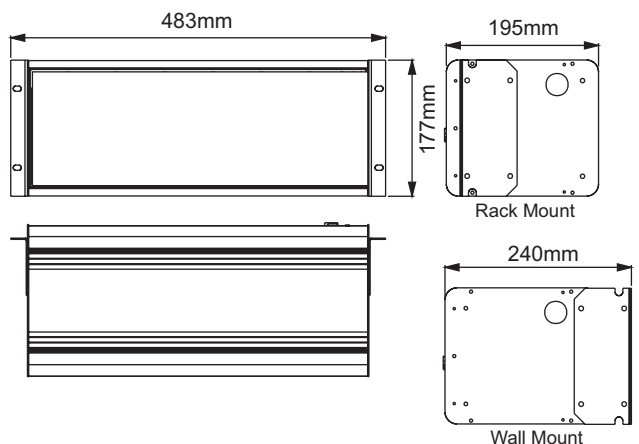
### MECHANICAL

The dimmer shall be designed to be freestanding, wall-mounted or mounted in a 19" rack. The dimmer shall be 440mm wide x 195mm deep x 175mm in height. The top and bottom covers shall be constructed of extruded aluminium and shall be designed to facilitate easy removal for access to the dimming electronics. The front and end panels shall be 0.9mm gauge steel. All metal surfaces shall be properly treated and finished with specialist paints or powder coat. Front panel legends shall be screen printed. The rear heatsink shall be constructed of extruded aluminium and shall be in a natural aluminium finish. The dimmer shall have knockouts for cable entry in each end, with two knockouts in the rear. The size of all knockouts shall be PG21.

Output connections and operator controls shall be located on the front panel of the dimmer. The bottom cover of the dimmer shall be fitted with captive rubber feet.

The dimmer shall be fitted with reversible brackets to facilitate wall or rack mounting. These brackets shall be finished to complement the dimmer unit.

The normal operating environment for the dimmer shall be +5°C to +40°C.



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