

Description

A range of no frills, install-them-and-forget-them power packs, Dimension 6 offers easy installation and reliability at an economical price. All models require a 60A single phase input and output six channels of 10Amps with short circuit and overload protection being provided by internal fuses.

The control protocol is DMX 512 and input and thru connections are made via 5-pin XLR plugs. A DMX line termination switch is provided internally along with a test feature and a preheat control on dimming models, all easily selectable on a bank of DIP switches which are also used for setting the DMX address.

An intelligent thermal management system ensures that Dimension 6 power packs are genuinely suitable for a trouble-free 100% duty cycle.

The range includes switching models, dimming models, low voltage output models and models with 15Amp UK sockets (see over)

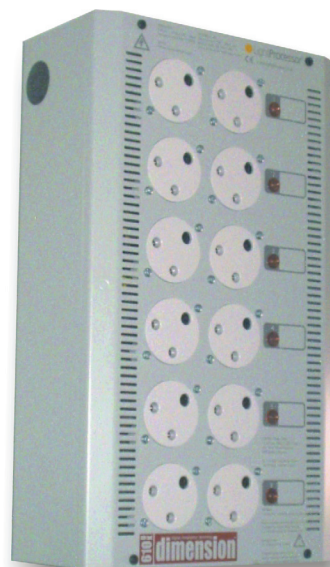


Key Features

Built to the same specification as the hardwired models, this variant has two UK 15A sockets on each of its six channels, making it especially suitable for use with temporary loads or for load patching. Output level is indicated in the neon attached to each channel.

For ease of installation the front panel has been made completely detachable from the body of the product. A single connector allows the internal wiring to be disconnected from the output sockets on the front panel. The chassis may then be screwed directly to the wall or attached via optional mounting brackets. Hardwired versions weigh approximately 6Kg. and measure 239mm. high x 350mm. wide x 102mm. deep. The socketed version weighs 7.5Kg. and measures 411mm. high x 238mm. wide x 140mm. deep including optional mounting brackets.

For larger installations Dimension 12 and Dimension 18 products might be more appropriate. Request details of these or any other LightProcessor products from info@lightprocessor.co.uk



LIGHTPROCESSOR

20 Greenhill Crescent, Watford Business Park, Watford, Herts, WD18 8JA

T: 01923 698090 F: 01923 698081 E: info@lightprocessor.co.uk www.lightprocessor.co.uk

Tender Specification:

Technical specification:

Power Supply and Voltage Range	Voltage 230V AC nominal, link selectable to 115V AC
Supply Frequency	50/60Hz
Capacity	Six channels of switching/dimming per unit (depending on model) Maximum load: 10A per channel/60A total Minimum load: Both models 100W
Control Inputs	USITT DMX512 (1990), via 5-pin XLR (3-pin XLR available to order)
Output Connectors	Screw Terminals
Physical Characteristics	Weight: Switching model 5kg Dimming model 6kg Dimensions: 239mm x 347mm x 98mm
Construction	Polyester coated steel - Colour: RAL 7035
Environment	<ul style="list-style-type: none"> • Temperature 0-30.C • Relative Humidity 0-90% non-condensing • Pollution Degree 2 • Installation Category 2 • Protection Classification 1P30
Conformance	LVD (using EN60439 and EN60950) EMC (using EN55014 and EN50082-1)

The unit shall be a fully digital 6 channel dimmer with outputs limited by standard format thermal/magnetic miniature circuit breakers with a fault breaking capacity of at least 10kA. It shall be so designed as to allow any number of the circuit breakers to be changed by the installer, up to the maximum stated rating of the model, in order to comply with installation and regulatory requirements. The unit shall come pre-fitted with C-curve breakers of either 6Amp or 10Amp rating.

It shall employ 'leading edge' ac power control and be capable of controlling all types of resistive or inductive loads up to the rated maximum output with a 100% duty cycle. It shall operate on either a single or three-phase supply and shall automatically detect the nature of the input and the phase order. There shall be internal links to select 230V or 115V supply options.

It shall be capable of control by USITT DMX (1990) and, with the addition of an optional module, also DRIVL or 0-10V +dc analogue signals. All control inputs shall be rated as SELV.

It shall be contained in a steel enclosure with removable front plate allowing full internal access whilst the unit remains wired and fixed to the wall. The bottom face of the enclosure shall be fitted with a service plate containing 40 mm holes for the connection of cable conduits. The service plate shall be completely removable allowing open access into any adjoining trunking or chamber. Separate access on both the bottom face and the rear of the enclosure shall allow for the completely separate entry of control cables maintaining SELV compliance. The enclosure shall be finished in a powder coat, colour RAL7035.

It shall have hardwired control inputs but an optional connector plate fitted with suitable DMX and/or analogue type connectors shall be available for instances where plug-in connection is required.

It shall come pre-fitted with a 4 pole 100A input isolator which can be replaced, either before supply or once the unit has been installed, at extra cost with a 4 pole RCD rated at 100A with a trip current of 30mA. The RCD shall have a test button.

It shall mount to the wall using multi-function steel brackets that are fitted either to mount a single dimmer unit or to link-connect multiple dimmer units in such a way as to ensure a neat level installation. Brackets shall be fitted to the wall first, allowing for the positioning of cable trunking and decoration, before the unit is finally hung into position.

It shall contain three independent power dimming modules each with led indication of channel input status and triac output status. Triacs and associated driver opto-couplers incorporated in each module shall be changeable without the need to remove any wiring and with only the use of a suitable screwdriver. Triac or driver replacement requiring the use of a soldering iron is not acceptable. Each module shall be removable without the need for removing load wiring from output terminals. Microprocessor controls shall monitor the temperature on each module separately and activate individual fans only when specifically required. Fans shall pass only cool air and in an upward direction to outlets at the top of the unit. Software shall prevent the continued operation of a module that exceeds pre-set thermal levels.

It shall employ DIP switches for the configuration of:- DMX line termination, 50-60 Hz operation, module response curve (dim or switch), module test function, DMX fail mode (clear or hold), module pre-heat selection and unit DMX start address. There shall be an led to indicate the presence of a signal input as well as the operational status of any microprocessor utilised within the unit. Control electronics shall be capable of operation with the loss of any one of the three supply phases.

It shall utilise only rising clamp screw terminal connectors for all installation connections. Phase supply power shall be terminated by a connector with a cross section cable entry of no less than 10mm. Each individual output channel shall have two connectors with a cross section cable entry of no less than 4mm.. Control signal terminations shall be located in a mechanically isolated section of the cabinet and shall have a cross section cable entry of no less than 2.5mm.. The complete input connector field shall be removable as a block to allow for wiring outside the cabinet prior to plugging into place.