LSC CONTROL SYSTEMS

GenVI

3 Channel GenVI TruPower 63Amp Rackmount/Portable Dimmer

Engineer and Consultant Specifications V2.02

General Description

The GenVI TruPower Dimmer (the Product) shall be a microprocessor controlled 3-phase input to 3 single-phase 63Amp output circuits, designed for rack-mounting or portable use. The Product shall be a user configurable Dimmer. The Product shall be able to be configured for 8-bit or 16-bit dimming operation. The product shall have user selectable dimmer curves, max and min levels and a full 512 channel softpatch.

Power Requirements

The Product shall be designed to operate from a nominal 230V AC 3-phase plus Neutral and earth power supply, with a nominal frequency of 50Hz. The Product must be able to operate without loss in performance, between 190-260V AC and a frequency range between 45-65Hz.

The Product shall be capable to operate with single-phase or 3-phase with any phase rotation order. The failure of any two of the three phases shall not stop the operation of the Product on the remaining phase.

Control Requirements

5-pin XLR input and thru connectors shall be provided on the front panel to allow the remote control of the Product by any of the following control signals: DMX512 (1990), DMX512-A (E1-11) or RDM (E1-20).

The operating mode and preferences shall be set using a full-colour TFT touchscreen Graphical User Interface (GUI) and shall be stored in non-volatile memory, to be recalled automatically to the last operating state once power has been reconnected to the Product. Units that use battery-backed memory will not be accepted.

Standard Features

The GUI shall be easy to use and provide the following information as a minimum:

- Set and display DMX512 start address
- Set the max & min levels and fade curve per channel output.
- DMX viewer capable of displaying all 512 channel output levels in bar graph format
- Graphical virtual faders for local control (rigger's control)
- Programmable "DMX Loss" scene
- Full 512 channel proportional Softpatch
- Software selectable DMX512 termination
- Fault indicators for loss of DMX512, over temperature and input power phase fail
- Help menus
- Owner information screen (back-up security)

The GUI shall be lockable with a PIN code to prevent accidental or intentional changing of the Product's parameters.

Each output circuit shall be protected by a single-phase 63Amp "C" curve MCB and a Type A 30mA RCD. The system shall utilise Pulse Transformer Fired Dimming (PTFD) technology and shall be able to drive inductive and reactive loads when in dimming mode, without the need for a ballast load. Units that use optocoupler technology shall not be accepted.

The Product shall operate without hindrance simultaneously across all channels on a 100% duty cycle at 25°C ambient temperature. A cooling fan shall be incorporated within the chassis that may be user-selected to run at a constant speed or set to adjust the speed automatically in relation to the product's internal temperature.

Construction

The Product shall be designed for use with 19" racking systems, flight cases and open portable frame.

The chassis must be constructed from zinc-coated steel and finished in durable powder-coat paint. Overall dimensions must not exceed 483mm wide by 132mm high by 460mm deep and 19kgs in weight.

The front panel shall contain the GUI, XLR Input and Thru control connectors and the MCBs + RCDs. Two front panel mounted handles must be provided to allow for carrying the product or withdrawing the product from 19" racks and to also provide extra protection to the RCBOs and the GUI.

The rear panel shall house the three 63A 3-pin single phase CeeForm output load connectors and the input power cable and gland.

The Product shall be a GenVI TruPower Dimmer from LSC Control Systems, model number GEN3/63C.

Disclaimer: LSC Control Systems Pty Ltd reserves the right to change any product specification without notice.
The products listed in this document are trademarks of LSC Control Systems Pty Ltd.