



*Innovative Electronics for a changing world*

Manual



### Professional Battery protection system

The **BLP-LCD-40A** – auto **12Vdc to 24Vdc** microprocessor controlled Battery protection system from Micro Instruments protects batteries from deep level discharges.

All different types of battery chemistries should avoid a deep level discharge as this changes the chemical structure of the battery and especially in Lead Acid Batteries, a phenomenon called “Gassing” occurs preventing the battery from either charging again or from reaching full charge capacity ever again.

The **BLP-LCD-40A** is a fully user programmable system to protect your Batteries from a deep level discharge

The **BLP-LCD-40A** will disconnect the load from your batteries as soon as the input voltage drops below the user programmable level protecting the battery and will re-connect the load as soon as the voltage rises above the user programmable level.

The unit switches Mosfet Power transistors to connect or disconnect the output power.

Large 16mm / 65Amp power connector terminals eases connections on large gauge battery cables.

The **BLP-LCD-40A** can switch up to 40Amp continuous.

## SETUP PROCEDURE

Connecting the battery pack 12V or 24V to the Battery input terminal while holding the “**program button**” pressed until the LCD display indicates “**memory erased**” will erase previous programmed values from memory.

Select the battery pack voltage connected to the unit as 12V or 24V battery with the **up** and **down** button and press “**program**” to select the correct battery input voltage.

Set the battery **low voltage disconnect** value with the **up** and **down** button and press **program** to enter the value – **the unit will disable the output at this voltage level**

Set the battery **high voltage re-connect** value with the **up** and **down** button and press **program** to enter the value– **the unit will enable the output at this voltage level**

The unit is now programmed and ready to use – the user settings is stored in non-volatile eeprom memory and will keep the settings even without power connected to the unit.

Safe Continuous current through device = 40 AMP DC max

### Compensation:

The **BLP-LCD-40A** battery low voltage protector monitors the voltage level for a 5 second interval in the case of an under voltage or a re-connect voltage level detected before disabling or enabling the output to compensate for sudden drops or rises in battery voltage

Physical = L = 95mm / W = 115mm - Height =40mm

Weight = 0.6Kg

