

## DESCRIPTION

The TALOS 2080 – 24 volt SMART UPS (Uninterruptible Power Supply) provides full management of shut downs and restarts and under normal running conditions it will automatically buck or boost the input voltage to maintain a smooth transient free 24V 5A DC supply regardless of input voltage. When the input voltage fails, or falls outside preset limits the backup battery is invoked. The transition between backup and pass-through mode is both seamless and glitch free.

The TALOS 2080 provides fully configurable management via the RS-232 interface to control limit requirements as well as start-up, shutdown and restart sequences providing invaluable protection to industrial PC's or any other critical and sensitive 24 volt components.

Please visit [www.lc.com.au](http://www.lc.com.au) for full manual, programme download and instructions specific to this product.

## SPECIFICATIONS

### ELECTRICAL

Input Voltage	18 – 30V DC
Maximum Input Current	10A
Output Voltage	24V DC $\pm$ 2V
Maximum Output Current	5A
Recommended Backup Battery	12V SLA min 7Ah
Max Battery Current at Full Load	15A
Communications Interface	RS-232

### ENVIRONMENTAL

Operational Ambient Temperature	- 0°C to 60°C
Storage Ambient Temperature	- 40°C to 75°C
Operating Relative Humidity	10 to 90% RH (non condensing)

### PHYSICAL

Dimensions (L x W x H)	199 x 110 x 50 mm
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## WARRANTY

12 months limited warranty

Contact LC Products for further information

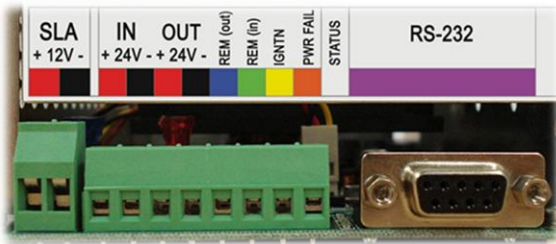
## FEATURES

- Fully configurable controlled start-up, shutdown and restarts sequences for 24 volt components for complete power protection
- Intelligently switches to and from backup battery supply as required with a seamless and glitch free transition
- Ensure safe restarts and management against continued power failures
- Limits, filters and protects against voltage surges, spikes and noise
- Actively controls and regulates 24V supply voltage to  $\pm$ 2V
- Automatically recharges and maintains battery
- Safely executes shutdown upon gross overload limits
- Monitors input and output voltages, currents, battery voltage, temperature, and fan speed
- Panel or DIN-RAIL optional mounting
- Optional YUASA battery DIN-RAIL bracket available

## EMISSIONS TESTING

Tested to certified emissions levels for industrial use

## TERMINALS and WIRING



All connections in and out of the UPS are terminated in the panel shown. The standard hardware configuration is to wire in the 12V SLA (backup battery), 24V IN (power source) and 24V OUT (protected system) connections.

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CONNECTION	LABEL	SPECIFICATION	INSTALLATION
Backup Battery Input (Required connection)	<b>SLA</b> <b>+12-</b>	nom 12V, max 15A	IMPORTANT – High quality 12 volt Sealed Lead Acid (SLA) battery required with minimum 7Ah capacity.
Main 24V Power Supply (Required connection)	<b>IN</b> <b>+24-</b>	nom 24V, max 10A	Connect to the main 24 volt power supply.
UPS 24V Power Out (Required connection)	<b>OUT</b> <b>+24-</b>	nom 24V, max 5A	Connect to the system or components to be protected.
Remote Monitor Output	<b>REM (out)</b>	VBAT OR VIN	This pin is a current limited voltage output and is intended to be used as an auxiliary pin to externally monitor the active UPS input system voltage.
Remote Monitor Input	<b>REM (in)</b>	8V – 30V, pulse duration >3000ms	This pin is an opto-isolated input. It is used as a trigger to start the UPS when the UPS is in a powerdown state and the 24V supply is not present.
Ignition Control	<b>IGNTN</b>	8V – 30V, pulse duration >3000ms	This pin is an opto-isolated input used to start the system using the ignition voltage in a vehicle. This can be any voltage from 8-30VDC.
Power Fail	<b>PWR FAIL</b>	Open collector, max current sink 50mA, max voltage 30V	This pin is a non-isolated open collector output. It will be pulled low when the UPS is running in backup mode.
Communications Interface	<b>RS-232</b>	RS232, slave, 9600,8,0,1 ASCII	Connect a PC via standard serial cable to this port. This is a non-isolated RS-232 port using a standard female DB9 socket. Refer full manual for programming guide.

### LED STATES

GREEN – Normal Operation Mode

ORANGE – Backup Mode

RED - Error

## DIMENSIONS and MOUNTING

