



## Controlled Laptop Charger Instruction Manual

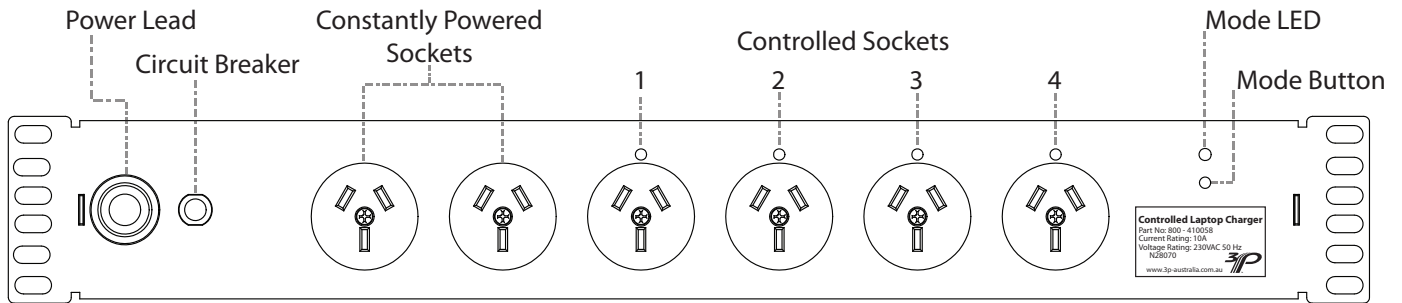
# Specifications

Model Number: 800-410058  
 Rating: 230 V AC @ 50Hz  
 Max Total Load: 10 Amps  
 Socket Rating 10 Amps  
 Mounting 19" mounting rails  
 Rack Space Requirement 1.5 RU  
 Conforms with AS/NZS 3197 in conjunction with AS/NZS 3100

**C-Tick Compliant**  N28070

**Sockets:**  
 Constantly Powered: 2  
 Controlled: 4

**Figure 1:** Controlled Laptop Charger



**Table 1:** Modes (For controlled sockets only)

Mode	Description	Mode Display
Disabled	All controlled sockets are off with power only to the constantly powered sockets.	Mode LED flashes once every 4 seconds to indicate unit power
Staged On	All sockets are enabled after staged powering of controlled sockets 1-4, with approximately a 1.5 second delay between sockets	Mode LED is constant
Constant Cycle	The controlled sockets are cycled continuously in order from socket 1 to 4. Each socket will be powered for a period of 1 hour before progressing to the next socket.	The Mode LED will flash constantly, being on and off for equal periods of half a second.
12h Cycle	Cycles through controlled sockets powering each single socket for a period of t hours once every 12 h cycle. Options of 1 or 2 hour periods.	The Mode LED will flash 1 to 2 times followed by a 2 second pause. The number of flashes corresponds to the time period each socket is powered.

## Application

The Controlled Laptop Charger is a purpose designed power management system providing both continuously powered and controlled AC sockets. This design enables vital equipment such as cooling systems or switching equipment to be powered from the same PDU (Power Distribution Unit) as controlled equipment such as laptop power adaptors while providing energy savings through timer controlled cycles.

The Controlled Laptop Charger is designed with 4 modes; Disabled, Staged On, Constant Cycle and 12 hour Cycle, allowing for usage in a wide range of applications. The Disabled mode provides a low power option only powering critical equipment, while the Staged On mode reduces the peak inrush current reducing the probability of tripping sensitive circuit breakers. The two cycle based modes provide significant power savings by reducing the powered time of each controlled socket by up to 91.7% of that of a constantly powered socket.

## Installation

The installation procedure for the Controlled Laptop Charger is as follows;

1. If rack mounting is desired, the Controlled Laptop Charger may be screwed directly onto 19" mounting rails using two M6 screws and cages nuts on each side. Two mounting configurations are possible for the 1.5 RU power board. Use either the top and lower central hole for a flush top fitting, or the bottom hole and upper central hole for a flush bottom fitting.
2. Plug in but do not power the PDU's power cord.
3. Plug in all appliances to be powered by the power board.
4. Finally power the PDU and set the mode according to requirements.

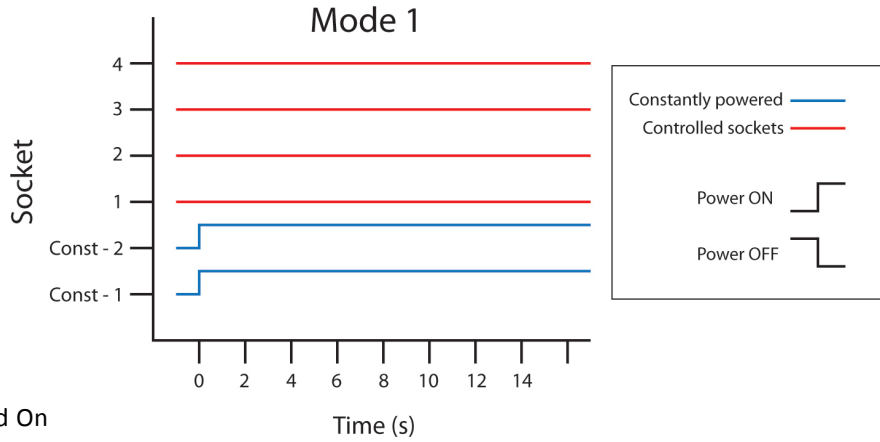
**WARNING:** *If the supply cord is damaged, it should be replaced by a Precision Power Products agent to avoid potential safety hazards.*

## Setting the PDU's Mode

The mode button (as seen in Figure: 1) when pressed, cycles through the 4 available modes. Each time the mode button is pressed the mode light will remain lit for 4 seconds during which the PDU will apply the new setting. Any subsequent press will reset the delay timer. Once set you can identify which mode is in use according to the mode LED sequence described in Table: 1.

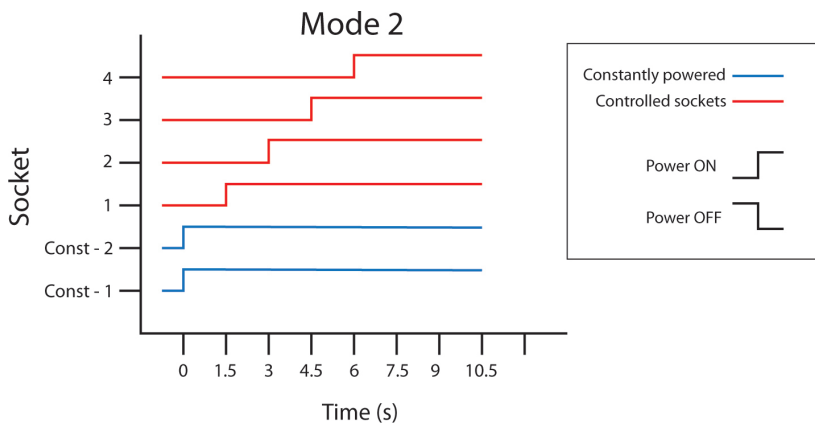
**Mode 1: Sockets Disabled**

During this mode each controlled socket will remain off.



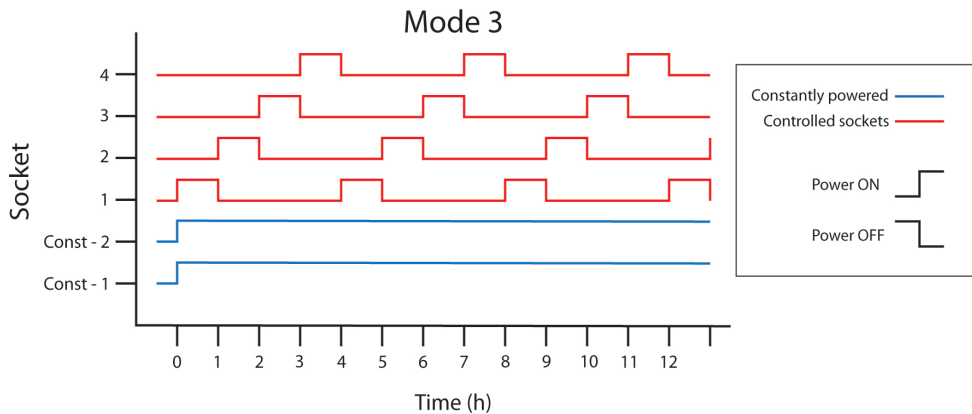
**Mode 2: Staged On**

When changed to 'Stage On' or powering on the PDU whilst in this mode, the controlled sockets will power on in series with an approximate 1.5 second delay. Once all sockets are on they will remain powered.



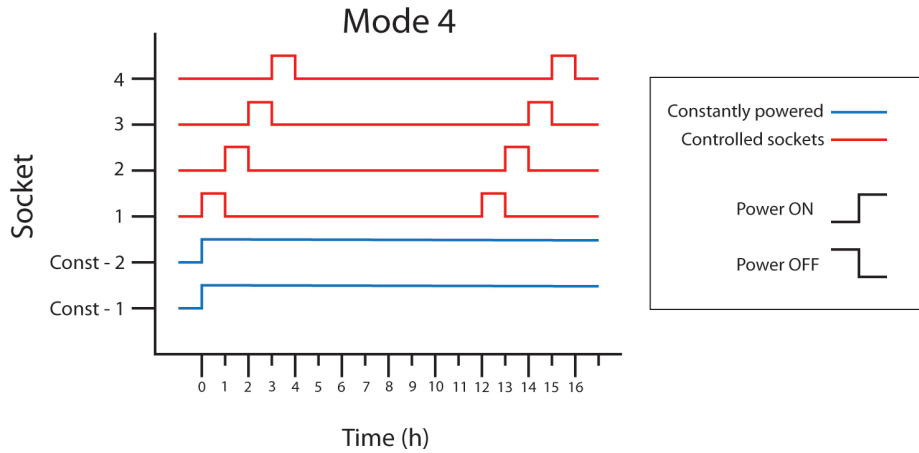
**Mode 3: Constant Cycle, 1 Hour period**

Once set or powering on the PDU whilst in this mode, the PDU will cycle through each of the controlled sockets sequentially providing power for a period of 1 hour. Once the 4th socket has completed its 1 hour period the cycle restarts.



**Mode 4: 12h Cycle, 1h periods**

Once set or powering on the PDU whilst in this mode, the PDU will cycle through each of the controlled sockets sequentially providing power for a period of 1 hour. Once the 4th socket has completed its 1 hour period all controlled sockets will remain unpowered for the remainder of the 12 hour cycle (8 hours).



**Mode 5: 12h Cycle, 2h period**

This mode behaves the same as mode 4, however this mode powers each of the controlled socket for a period of 2 hours therefore leaving the controlled sockets unpowered for the remainder of the 12 hour cycle (4 hours).

