

**P/N: BC2405PS**  
120W 24V 5.0A

## Features:

1. 3-step charge control.
2. Current detection as charge termination.
3. Switch mode charger with universal input voltage.
4. Available in 6V, 12V, 24V, 36V, 48V versions.
5. Reverse Polarity and Short Circuit Protection.
6. LED status indicator.



## Specifications

Output Rating	24V/5A
Input Rating	110V/220
Maximum Output Power	120W
Input Frequency	60HZ
Ripple	≤ 120MV
Efficiency (at 100% load)	≥ 75%
Current Limit	≤ 5A
Leakage current	≤ 0.25MA
Working Ambient Temperature	10°C-50°C
Working Ambient Humidity	5%-95%
Dimensions	148*90*82MM
Recommended Battery Capacity	24V/33AH

## Functionality:

Once the charger is attached to a sealed lead acid battery and plugged in, the charging process will begin. The charger will subject the lead acid battery to three steps of charging. In the first step, the charger will enter into fast charge mode. During this step, the charger is in constant current mode with the current rate remaining at its maximum value. In step two, the battery will be nominally 80-95% charged, and the charger will switch into constant voltage mode (current is no longer being provided at its maximum rate). The charger will continue to provide a constant voltage until the charge current decreases to the charge termination level.

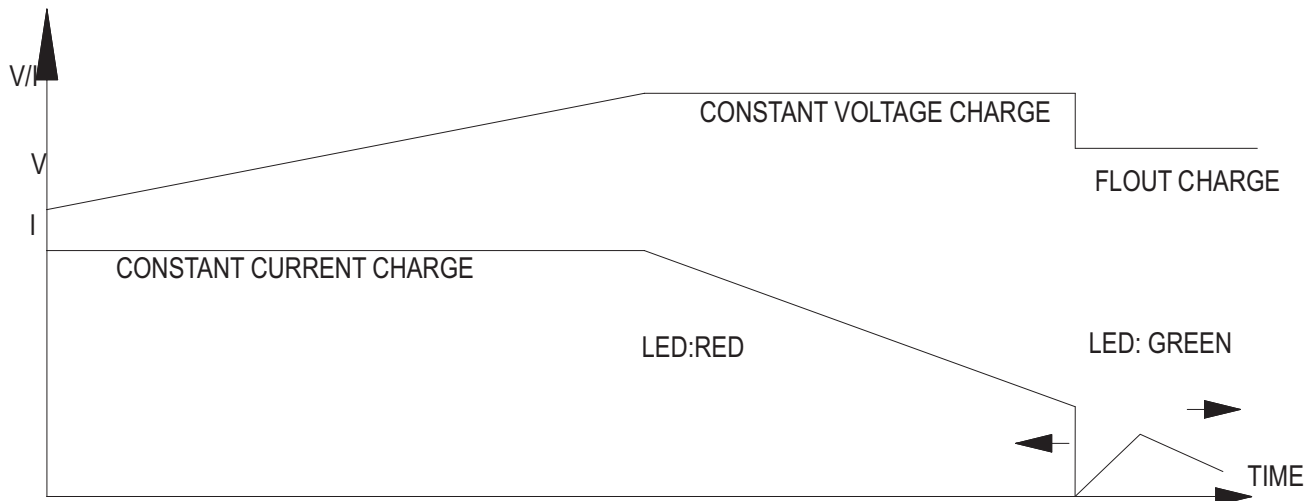
The third and final step will place the charger in float charge mode. When the charge is full, user should remove the battery from the charger. If the float is needed for operational readiness, lower the charger voltage to about 29.00V/cell or 27.70V/cell, the chargers perform this function automatically), the float charge compensates for the self-discharge. The battery can be operated for an unlimited time, connect other battery, the charger can return to rapid charging (step 1).

## Charge control values:

Charger voltage rating	24V
Step 1: Charger current	4.75A-5.00A
Step 2: Charger voltage	29.90V-30.00V
Step 3: Float charge current	0.8A-1.0A
Float charge voltage	27.70V-28.30V

## LED status indicator:

The lead acid charger has an LED status indicator to inform the user of its status. During step 1 and step 2, the LED will appear red in color. During step 3, the LED will appear green in color.



## Mechanical:

