



**La MARCHÉ**®

**COMBINATION DISTRIBUTION PANEL (CDPD) – 39S OPTION**

**GENERAL DESCRIPTION**

The CDPD consists of a Distribution Breaker Box, Digital Alarm Status Panel and an Audible Sound Alert with silence switch.

**LOAD DISTRIBUTION BREAKER**

Twenty circuit breaker slots with a breaker tripped “LED” and a set of form “C” alarm contacts for customer connection. These contacts will change state when a breaker trips.

**DIGITAL ALARM STATUS PANEL**

- Digital display, selectable for d.c. voltage, d.c. current (amps), timer mode, and equalize time remaining (hours)
- Electronic Equalize timer with equalize light
- Summary Alarm Light/Alarm relays-will indicate when a breaker trips high or low voltage or low current when used.
- Low Voltage Alarm 1 and Low Voltage Alarm 2 with relays
- Low d.c. current light with alarm relay
- High d.c. voltage light with alarm relays
- Reset push-button
- Equalize / select mode switch

*The low d.c. volts, high d.c. volts, low current, high d.c. voltage alarms , the equalize timer mode and equalize time are all adjustable from the front door panel.*

ECN/DATE

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INSTRUCTION DRAWING NUMBER:  
P25-**LOPT39S-1**

## **OPERATION**

Once the proper a.c. input and battery are connected to the system, the digital display will indicate the system output voltage, the DCV "LED" will light. Toggle the equalize/select switch down to the select position and the display will indicate system output amps and its "LED" will light. A third toggle and the time mode will indicate on the display and its "LED" will light. A fourth toggle and the equalize time remaining will indicate on the display.

To check or re-set the alarm settings, hold the equalize/select switch in equalize for approximately five (5) seconds, the low voltage "LED-1" will blink and the display will read the low voltage setting for approximately five (5) seconds, the "LED" will turn off and the low voltage "LED-2" will blink for approximately 5 seconds it will turn off and the high voltage "LED" will turn on, the display will indicate the high voltage alarm setting. The display and "LED" will change every five seconds. The remaining "LED's" are high voltage, timer mode and equalize time. After going through one cycle, the display will return to the normal mode. The alarm settings, timer mode, or equalize time can be reset while their function is active (i.e. "LED" is blinking) by using the equalize select mode switch. Pushing the switch to up will raise the setting, while pushing the equalize select mode switch down will lower the setting. NOTE: The cycle must be allowed to be completed in order to save any new settings.

There are two sets of dry form "C" contacts for each customer alarm. The contacts are rated 60 Va @ 120V, a.c. or d.c.. These contacts will change in approximately five (5) seconds after the alarm light turns on.

This alarm package is shipped with the following factory settings unless otherwise specified.

**NOTE: To disable the low current alarm, put display in calibrate, low current and push select switch down until digital meter reads "NO L.C."**

**TIMER MODES - NOTE: IN ALL MODES, THE UNIT WILL RETURN TO FLOAT IF THE EQUALIZE SWITCH IS PUSHED.**

Low D.C.voltage (1): 1.98Vpc L.A.  
Low D.C. voltage (2): 1.98Vpc L.A.  
High D.C. voltage : 2.45 Vpc L.A.  
Low D.C. current: .5 A  
Timer mode: Mode 0  
Equalize Time: 8 Hours

### MODE 0

#### **DISPLAY indicates P00**

This is the standard timer mode. If the "EQUALIZE" switch is pushed the timer will switch the charger into the equalize mode and the equalize "LED" will indicate. The timer will automatically return the charger to the float mode when the equalize cycle is complete.

### MODE 1

#### **DISPLAY indicates P01**

This mode of operation automatically starts an equalize cycle every 7 days after. The length of this cycle is again determined by the timer setting. After the equalize period the timer will wait for another 7 days and then restart.

### MODE 2

#### **DISPLAY indicates P02**

This mode of operation automatically starts an equalize cycle every 14 days. The length of this cycle is again determined by the timer setting. After the equalize period the timer will wait for another 14 days and then restart.

### MODE 3

#### **DISPLAY indicates P03**

This mode of operation automatically starts an equalize cycle every 30 days. The length of this cycle is again determined by the timer setting. After the equalize period the timer will wait for another 30 days and then restart.

### MODE 4

#### **DISPLAY indicates P04**

This mode of operation automatically starts an equalize cycle when the d.c. voltage drops below the low voltage setting for 30 seconds or longer. The battery voltage must rise approximately 8% above the low voltage set point.

## **AUDIBLE SOUND ALERT – with silence switch**

Will give an audible alarm if a breaker trips.

INSERT – PIC-SP4K-CDPD-A1