



### APPLICATIONS

- Charges Nickel Cadmium (NiCd) and Nickel Metal Hydride (NiMH) batteries
- Optimally designed for batteries up to 40 Ampere Hours

### KEY FEATURES

- Battery temperature monitoring capability
- Four stage charger algorithm - microprocessor
- Full charge based on zero slope voltage detect or rate of temperature increase
- Microchip controlled charge termination
- Programmed for specific cell count and capacity
- LED displays for charging status
- Single battery charger
- Unattended charging

### OPERATIONAL CHARACTERISTICS

- Four stage algorithm operation
  - **Soft start charge mode** – the current increases gradually over the first two minutes from approximately one fifth of the bulk charge current up to the factory set bulk charge rate
  - **Bulk charge mode** – current is supplied to the battery at the rate programmed into the charger for the specific battery pack
  - **Topping charge mode** – current is supplied for two hours at a C-10 rate to complete the charge cycle
  - **Maintenance charge mode** – current is supplied at the C/40 rate until the battery is removed

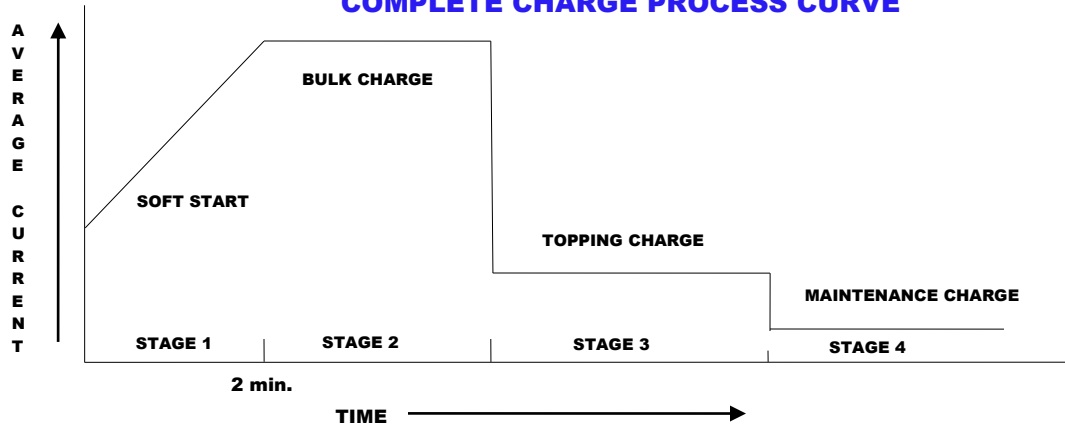
### CHARGER SPECIFICATIONS

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| <b>Model No:</b> PC-8200   |
| <b>AC Input Range:</b> 95 VAC to 265 VAC; 50/60Hz  |
| <b>No. of Cells / Nominal Battery Charge Voltage:</b><br>2 cells to 20 cells / 2.4 VDC to 24 VDC (factory set)   |
| <b>Battery Charge Current:</b> 0.2 to 5.0 Amps (factory set)   |
| <b>Charger Power Out:</b> 80 Watts maximum   |
| <b>Battery Connection:</b> XLR 3-pin connector; located on front<br>Pin 1: Positive (+); Pin 2: Negative (-); Pin 3: Thermistor In   |
| <b>Led Indicators:</b> <ul style="list-style-type: none"> <li>• Solid red LED – Charger on, ready to charge, no battery connected</li> <li>• Flashing green LED – Soft Start &amp; Bulk Charge mode charging</li> <li>• Solid green LED – Topping Charge &amp; Maintenance Charge mode charging</li> <li>• No LED indication – charging is complete</li> </ul> |
| <b>Weight:</b> 2.5 lbs. (1.2 Kg)   |
| <b>Dimensions:</b> 8" x 5.6" x 3.0" H (20.3cm x 14.3cm x 7.6cm)  |
| <b>Battery Charging Temp:</b> <ul style="list-style-type: none"> <li>• 7 to 10 Hour Rate: 0°C to +45°C (32°F to +113°F)</li> <li>• 1 to 3 Hour Rate: 15°C to +45°C (60°F to +113°F)</li> </ul>   |
| <b>Operating Temp:</b> -30°C to +40° C (-22°F to +104°F)   |
| <b>Storage Temp:</b> -40° C to +70° C (-40°F to +158°F)  |
| <b>Humidity:</b> 95% relative  |
| <b>Color:</b> Black, anodized  |
| <b>Exterior Housing:</b> Extruded aluminum body, polycarbonate end caps  |
| <b>Harmonized Tariff Code:</b> 8504.40.9550  |

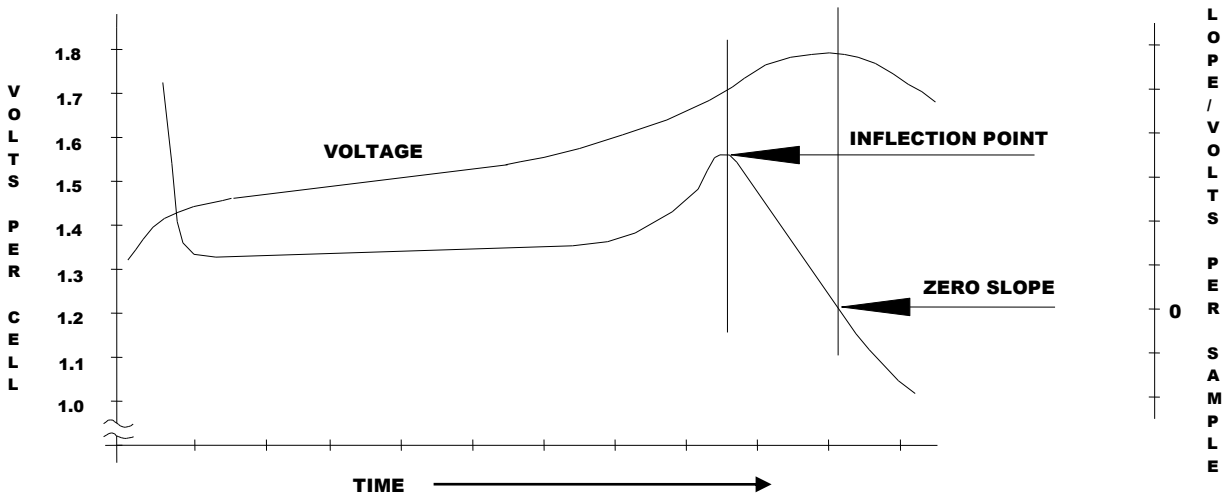
### CHARGER PART NUMBER DETERMINATION

- The PC-8200 specific part number can be configured and ordered using the following
  - PC-8200-**BB-CC-DD(T)**
  - Where **BB** is the cell count for the battery
  - Where **CC** is the batteries capacity in Ampere Hours
  - Where **DD** is the charge time in quarter hour increments
  - Where **(T)** needs to be added, if the battery pack contains a the thermistor to be monitored

**COMPLETE CHARGE PROCESS CURVE**



**CHARGE TERMINATION CRITERIA CURVE**



**BULK CHARGE CYCLE CURVE**

