# Appendix C
# **Specifications**

## Hardware

| Battery Analyzers | **C7200-C** | **C7400-C** | **C7400ER-C** |
|---|---|---|---|
| **Part Numbers** | **07-720-0100** | **07-740-0100** | **07-740-1100** |
| **Independent stations** | 2 | 4 | 4 |
| **Battery voltage** | 1.2-16V | 1.2-16V | Li-ion and SLA 1.2-36V |
| | | | NiCd and NiMH: 1.2 – 28.8V |
| **Charge/discharge current** | 100mA-4A | 100mA-4A | 100mA-6A* |
| **Accuracy** | +/- 1% at max rated voltage, +/- 2% at 4000mA | | |
| | Services batteries up to 24Ah. If set above 4A*, the current automatically scales down. | | |
| **Maximum charge power** | 40W per station; 40W total | 55W per station; 80W total | 75W per station; 170W total |
| **Maximum discharge power** | 35W per station; 70W total | 35W per station; 140W total | 75W per station; 200W total |
| **Power management** | On high load demands, the current scales down; large batteries may go on waiting queue | | |
| **Line voltages** | 100-240VAC, 50-60Hz; 1.5A max | 100-240VAC, 50-60Hz, 1.75A max | 100-120/200-240VAC, 50-60Hz; 4A max |
| **Chemistries** | Lithium-ion, Lithium-phosphate, nickel-metal-hydride, nickel-cadmium, lead-acid | | |
| **Charge method** | Automatic full charge detection, safe termination under all conditions. Temperature controlled. | | |
| | Lithium-phosphate, Lithium-ion and lead-acid: constant voltage with current limit. | | |
| | Nickel-based: constant current with Reverse Load adjustable from 5-12%. | | |
| | Customized charge methods possible. | | |
| **Discharge method** | Constant discharge current to end-of-discharge voltage threshold | | |
| **Battery Adapters** | Custom and universal SnapLock™ adapters. Each adapter holds up to 10 C-codes to service different battery types. Re-programmable with menu function. | | |

| | | | | |
|---|---|---|---|---|
| | | Temperature controlled. | | |

**Security**

| | | |
|---|---|---|
| | Level 0 | Open, no programming restrictions (default) |
| | Level 1 | Password protected (low); allows C-code selection and display options |
| | Level 2 | Password protected (high); most programming choices are locked |

**Display** — 80-character LCD, backlit; each station also features RUN, READY, FAIL signal lights

**Data Ports**

USB port: to connect to PC for BatteryShop™ and USB label printers.

Serial port – to print to label printers

**Throughput**

| | | |
|---|---|---|
| QuickSort™ | 30-40 batteries/hr | 60-80 batteries/hr |
| Full service | Fleet of 80 batteries typical | Fleet of 160 batteries typical |

Throughput on full service is based on recommended monthly maintenance. Each analyzer services two battery batches every 24h (day and night run), 20 days per month.

**Physical**

| | | | |
|---|---|---|---|
| Length | 12.1"; 312mm | 14.4"; 360mm | 15.4"; 398mm |
| Width | 9,4"; 240mm | 11.0"; 280mm | 11.0"; 280mm |
| Height | 3.5"; 90mm | 3.8"; 100mm | 4.2"; 107mm |
| Weight | 7.1lb.;   3.2 kg | 10.05lb.; 4.54kg | 12.1lb; 5.5kg |

**Environmental**

Operating temperature 41°F to 95 °F; 5°C to 35°C

Storage temperatures –40°F to 167°F; -40°F to 75°C

**Firmware** — Upgradeable with BatteryShop, flash memory. Lifetime upgrade subscription available.

**Approvals** — Tested and approved by ITS to comply with CSA/UL/CE standards.

**Warranty** — Cadex warrants the analyzer against defective materials and workmanship for a period of two (2) years from the original purchase date.

\* 6A charge/discharge current is only available with specialized / customer adapters.