**Defibrillator**

**Waveform:** Biphasic truncated exponential, with voltage and current duration compensation for patient impedance.

**Output Energy Sequence:** Multiple levels, configurable from 150 joules to 360 joules (200 joules min for Japan). Factory default settings of 200J, 300J, 360J.

**Output Energy Accuracy:** ±10% into 50 ohms, ±15% into 25 to 100 ohms.

**Shock Advisory System:** An ECG analysis system that advises whether a shock is appropriate, meets rhythm recognition criteria specified in DF39.

**System Recharge Times:**
- Charge times with a fully charged device: 200 joules in less than 9 seconds, 360 joules in less than 15 seconds.
- Charge times with a 200J device: Able to deliver 6 shocks or provide 30 minutes of operating time.
- Charge times with a 300J device: Able to deliver 6 shocks or provide 42 minutes of operating time.
- Charge times with a 360J device: Able to deliver 6 shocks or provide 42 minutes of operating time.

**Device Capacity:**
- Typical: Thirty (30) full discharges or 210 minutes of “on time” with a fully charged device.
- Minimum: Twenty (20) full discharges or 140 minutes of “on time” with a fully charged device.

**Charge times with a fully charged device:** 200J in less than 9 seconds, 360J in less than 15 seconds.

**Charge times with a 200J device:** 6 shocks or 30 minutes of operating time.

**Charge times with a 300J device:** 6 shocks or 42 minutes of operating time.

**Charge times with a 360J device:** 6 shocks or 42 minutes of operating time.

**Shock Charge Time:**
- Charge times with a fully charged device: 200J in less than 9 seconds, 360J in less than 15 seconds.

**System Recharge Times:**
- Recharge times with a fully charged device: Able to deliver 6 shocks or provide 42 minutes of operating time after 24 hours of recharge time and 20 shocks or 140 minutes of operating time after 72 hours of recharge time with a new CHARGE-PAK installed.

**Controls:**
- Lid Release/ON-OFF—Controls device power.
- SHOCK button (semi-automatic version)—delivers defibrillation energy. After electrodes are attached to a patient, the fully automatic version of the device delivers a shock, if appropriate, not requiring operator intervention.
- Electrical Protection: Input protected against high voltage defibrillator pulses per IEC60601-1:EN60601-1.

**User Interface**

**User Interface:** The user interface includes voice prompts, audible tones and graphic prompts.

**Readiness Display:** The readiness display shows the device status.

**OK Indicator:** Shows “OK” when the last self-test was completed successfully. When the “OK” indicator is visible, all other indicators are not visible. The “OK” indicator is not displayed during device operation.

**CHARGE-PAK Indicator:** When displayed, replace the CHARGE-PAK battery charger.

**Attention Indicator:** When first displayed, at least six (6) discharges or 42 minutes of operating time remain.

**Service Indicator:** Service required when displayed.

**Environmental**

**Note:** All performance specifications defined assume the unit has been stored (two hours minimum) at operating temperature prior to operation.

**Operating Temperature:** 0°C to +50°C (+32°F to +122°F).

**Storage Temperature:** -40°C to +70°C (-40°F to +158°F) with CHARGE-PAK and electrodes, maximum exposure time limited to one week.

**Atmospheric Pressure:** 760 mmHg to 429 mmHg, 0 to 15,000 feet above sea level.

**Relative Humidity:** 5 to 95% (non-condensing).

**Water Resistance:** IEC60529/EN60529 IPX4 “Splash proof” with electrodes connected, CHARGE-PAK installed.

**Shock:** MIL-STD-810E, Method 516.4, Procedure 1, (40g, 6-9 ms pulse, 1 sine each axis).

**Vibration:** MIL-STD-810E, Method 514.4, Helicopter - category 6 (0.75 Grms) and Ground Mobile - category 8 (2.65 Grms).

**Physical Characteristics**

**Height:** 10.7 cm (4.2 in).

**Width:** 20.3 cm (8.0 in).

**Depth:** 24.1 cm (9.5 in), excluding handle.

**Weight:** 2.0 kg (4.5 lb) with CHARGE-PAK and electrodes.

**Default Settings**

**Energy Sequence:** Energy sequence is set to 200J, 300J, 360J.

**Energy Detection:** The energy detection system is set to on during analysis.

**Energy Protocol:** The energy protocol is set to increase energy only after a lower energy shock was unsuccessful.

**Stack Shocks:** Stack shocks option is set to off.

**Turn-On Prompt:** The turn-on prompt is set to provide voice prompts upon power on.

**CPR Time:** The CPR Time is set to 120 seconds.

**Voice Prompt Volume:**
- The voice prompt volume is set to high.

**Report Types:**
- Continuous ECG – A continuous patient ECG report.
- Continuous Summary report – A summary of critical resuscitation events and ECG waveform segments associated with these events.
- Event Log report – A report of time stamped markers, which reflect operator and device activity.
- Test Log report – A device self-test activity report.

**Capacity:** Minimum 200 time-stamped event log markers.

**Communications:** Wireless transfer to a personal computer.

**Data Review:** Physio-Control provides an array of tools to meet customer needs for data viewing and analysis.

**Accessories**

**CHARGE-PAK Battery Charger**

**Type:** Li/SO2Cl2 Lithium Sulfuryl Chloride, 11.7V, 1.4 amp-hours.

**Replacement:** Replace the CHARGE-PAK battery charger and QUIK-PAK™ electrodes packet after using the defibrillator, if the CHARGE-PAK symbol appears in the readiness display or when the Use By date is reached (typically 2 years).

**Weight:** 80.5 grams (0.18 lb).

**QUIK-PAK Electrode Pads**

**Pads:** ECG is received from disposable defibrillation electrodes, standard placement (anterior-lateral).

**Pads Packaging:** User intuitive, rapid release QUIK-PAK electrodes allow the electrode pads to be preconnected to the device and protected under a top cover.

**Pads Replacement:** Replace every two (2) years.

**Infant/Child Reduced Energy Defibrillation Electrodes:** For use on infants and children less than 8 years of age or less than 55 lbs (25kg).

**Data Storage**

**Memory Type:** Internal digital memory.

**ECG Storage:** Dual patient data storage. Minimum 20 minutes of ECG stored for the current patient, summarized data stored for the previous patient.