Product Highlights

• Bluetooth® Low Energy (LE) communication enabling smartphone connectivity through data encryption
• 40J delivered energy safety shock option for enhanced safety margin
• DeFT Response™ technology offers noninvasive programming options to optimize rescue therapy to each patient’s unique physiology and changing conditions
• VF Therapy Assurance decreases time to treatment for arrhythmias in patients who are likely to be hemodynamically unstable
• Antitachycardia pacing (ATP) while charging and prior to charging in the VF zone extends the programming options for terminating tachyarrhythmias without a high-voltage shock
• ShockGuard™ technology with DecisionTx™ programming designed to reduce inappropriate therapy and minimize the need for programming adjustments at implant
  - SecureSense™ RV lead noise discrimination algorithm detects sustained lead noise and records short bursts of oversensing that would otherwise go unnoticed or potentially lead to one or more inappropriate shocks
  - Far Field MD™ morphology discrimination and chamber onset discrimination enhance SVT and VT discrimination for reduced inappropriate therapies
• SenseAbility™ sensing algorithm feature provides the flexibility to fine-tune programming around T-wave oversensing without decreasing sensitivity
• DynamicTx™ over-current detection algorithm automatically changes shock configurations to ensure delivery of high-voltage therapy when high current is detected
• MRI Ready device tested in combination with MR Conditional leads for full-body scans using a 1.5T or 3T (Tesla) field strength MRI Scanner*
• New battery provides higher capacity than previous QHR‡ batteries to offer superior longevity/volume ratio
• DF4 connector designed to streamline defibrillation connections into a single terminal pin and reduce the number of set screws
• Cold can programmability provides an additional RV-SVC shock configuration to decouple the can from the shocking vector parameters
• The CorVue™ congestion monitoring feature measures transthoracic impedance changes over time to provide additional insight into the patient’s heart failure condition
• Premature Atrial Contraction (PAC) Response to avoid pacing the atrium in a vulnerable zone
• Physiologic rate responsive AV Delay and PVARP
• Dual patient notification: audio notification through the device and visual notification via myMerlinPulse™ app

Ordering Information

Contents: Cardiac Pulse Generator

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>DIMENSIONS (H × W × T, MM)</th>
<th>WEIGHT (G)</th>
<th>VOLUME (CC)</th>
<th>CONNECTOR DEФИBRILLATION</th>
<th>CONNECTOR SENCE/PACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDDRA500Q</td>
<td>69 × 51 × 12</td>
<td>71</td>
<td>31</td>
<td>DF4</td>
<td>IS-1; DF4</td>
</tr>
</tbody>
</table>

*See MRI Scan Parameters in MRI Ready Systems Manual.
**Gallant™ Dual-Chamber ICD**

**CDDRA500Q**

**PHYSICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Models</th>
<th>CDDRA500Q</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Telemetry</strong></td>
<td>Bluetooth® LE Communication</td>
</tr>
<tr>
<td><strong>Delivered/Stored Energy</strong></td>
<td>40-45 J</td>
</tr>
<tr>
<td><strong>Volume</strong></td>
<td>31 cc</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>71 g</td>
</tr>
<tr>
<td><strong>Debellification Lead Angulation</strong></td>
<td>±90° ± 5° ± 12 mm</td>
</tr>
<tr>
<td><strong>Atrial Sense/Pace Lead Connection</strong></td>
<td>IS-4</td>
</tr>
<tr>
<td><strong>Ventricular Sense/Pace Lead Connection</strong></td>
<td>DF4</td>
</tr>
<tr>
<td><strong>High-Voltage Can</strong></td>
<td>Electroactive titanium can</td>
</tr>
</tbody>
</table>

**PARAMETER SETTINGS**

**AF Management**

- **AF Suppression™ Pacing**
  - On; Off
  - No. of Overdrive Pacing Cycles: 80–150 min
- **Sensing/Detection**
  - Low Frequency Attenuation
  - Threshold Start
  - Discrimination Modes
  - SVT Discriminators
  - Discrimination Algorithms
  - Ventricular Sense
  - Throttle Zones
- **Ventricular HV Lead Impedance**
  - Ramp: Burst; Scan; 1 or 2 schemes per VT zone
  - ATP While Charging: ATP Prior to Charging: Off
  - ATP Upper Rate Cutoff
  - Burst Cycle Length
  - Min. Burst Cycle Length
  - Readaptive
  - Number of Bursts
  - Add Stimuli per Burst
  - ATP Pulse Amplitude
  - ATP Pulse Width
- **High-Voltage Therapy**
  - Dynamic™ On-Current Detection Algorithm
  - DefiPT™ Technology
  - High-Voltage Output Mode
  - Waveform
  - RV Polarity
  - Electrode Configuration
- **Bradydysrhythmia Pacing**
  - Permanent Modes
  - Temporal Modes
  - Activity Sensor
  - Programmable Rate and Delay Parameters
  - Pulse Amplitude
  - Ventricular AutoCapture™
  - Pacing System
  - AcUp™ Confirm Feature
  - QuickP'rt™ Timing Cycle Optimization
  - Auto Mode Switch (AMS)
  - Atrial Tachycardia
  - Detection Rate
  - Rate Responsive PVARP
  - Rate Responsive V Pace Refractory
  - PAC Response

**Programmable Notifiers**

**Electrograms and Diagnostics**

- **Stored Electrograms**
- **MRI Settings**
  - MRI Mode
  - MRI Base Rate
  - MRI Paced AV Delay
  - MRI Pulse Amplitude
  - MRI Pulse Width
  - MRI Pulse Configuration
  - MRI Timeout
  - Device Testing/Induction Methods
  - **Ventricular HV Lead Impedance**
  - **Histograms and Trends**
  - **CorVue Congestion Monitoring**
  - **Threshold**
  - **MRI Scan Parameters**

**Additional Information**

- **Magnet Reversal**
- **RF Transmission Conditions**
- **Scan Region**

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**Tel: +32 2 744 68 11**

**Cardiovascular Abbott**

**Gallant™ Dual-Chamber ICD CDDRA500Q**

**PAC Response Interval**

**PDM Detection/Termination**

**Ventricular Intrinsic Preference**

**Post-Therapy Pacing (Independently Programmable from Bradycardia and ATP)**

**Post-Shock Pacing Mode**

**Post-Shock Base Rate**

**Post-Shock Pacing Duration**

**Device Testing/Induction Methods**

**DC Filter™ Induction Method**

**Pulse Duration**

**Burst Fiber Cycle Length**

**Noninvasive Programmmed Stimulation (NIPS)**

**Patient Notifiers**

**Programmable Notifiers**

**Battery Assurance™ alert, Possible HV circuit damage, HV charge timeout, Long charge time for Capacitor Maintenance, Device at ERE, Atrial pacing lead impedance out of range. Ventricular pacing lead impedance out of range. High-voltage lead impedance out of range, AT/AF episode duration, AT/AF Burden High, Ventricular rate during AT/AF, SecureSense™ lead noise detection, Non-sustained ventricular oversensing, Ventricular pacing percentage greater than limit, CorVue™ congestion monitoring**

**Electrograms and Diagnostics**

**Stored Electrograms**

- **30 minutes (2 user programmable + discrimination channel), up to one minute programmable pre-trigger data per VT/VF**
- **FibraDig™ additional triggers include lead noise detection, non-sustained ventricular oversensing, morphology template updates, atrial episode, PMT termination, PAC response, magnet reversion, noise reversion**

**Therapy Summary**

**Diagnosis of delivered**

**Episode Summary**

- **Directory listing of up to 60 episodes with access to more details including stored electrograms**
- **History of bradydysrhythmia events and device-initiated charging Trend data and counts**

**MRI Settings**

- **Tachy Therapy**
  - Disabled
  - **MRI Mode**
    - OFF: VOO; AOO: Pacing Off
  - **MRI Base Rate**
    - 30–100 min
  - **MRI Paced AV Delay**
    - 30–120 ms
  - **MRI Pulse Amplitude**
    - 5.0 or 7.5 V
  - **MRI Pulse Width**
    - 1.0 ms
  - **MRI Pulse Configuration**
    - Bipolar
  - **MRI Timeout**
    - Off; 3; 9; 12; 24 hours

**MRI Scan Parameters**

**LEAD MODEL**

**MAGNET (Tesla)**

**RF TRANSMIT CONDITIONS**

**SCAN REGION**

- **Durates™ Defibrillation Lead**
  - LDA220Q (lead lengths: 58, 65 cm)
  - 1.5 T

**Opus™ Lead**

- **LDA220Q (lead lengths: 58, 65 cm)**
  - 1.5 T

**Tendril™ STS Pacing Lead**

- **LDA220Q (lead lengths: 58, 65 cm)**
  - 1.5 T

**Tendril™ MRI Lead**

- **LDA220Q (lead lengths: 58, 65 cm)**
  - 1.5 T

**† For additional information about specific MR Conditional ICDs and leads, including scan parameters, warnings, precautions, adverse conditions to MRI scanning, and potential adverse events, please refer to the Abbott MRI Ready Systems Manual at: medical.abbott/manuals.**