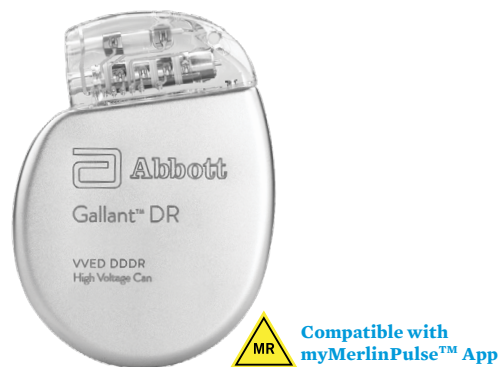


Gallant™ Dual-Chamber ICD

CDDRA500Q



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

| MODEL NUMBER | DIMENSIONS (H × W × T, MM) | WEIGHT (G) | VOLUME (CC) | CONNECTOR DEFIBRILLATION | CONNECTOR SENSE/PACE |
|--------------|----------------------------|------------|-------------|--------------------------|----------------------|
| CDDRA500Q | 69 × 51 × 12 | 71 | 31 | DF4 | IS-1; DF4 |

*See MRI Scan Parameters in MRI Ready Systems Manual.



Gallant™ Dual-Chamber ICD

CDDRA500Q

IMPLANTABLE CARDOVERTER DEFIBRILLATOR (ICD) DEVICE

PHYSICAL SPECIFICATIONS

| Models | CDDRA500Q |
|--|----------------------------------|
| Telemetry | Bluetooth® LE Communication |
| Delivered/Stored Energy | 40/45 J |
| Volume | 31 cc |
| Weight | 71 g |
| Size | 69 × 51 × 12 mm |
| Defibrillation Lead Connection | DF4 |
| Atrial Sense/Pace Lead Connection | IS-1 |
| Ventricular Sense/Pace Lead Connection | DF4 |
| High-Voltage Can | Electrically active titanium can |

PARAMETER SETTINGS

| PARAMETER | SETTINGS |
|---|---|
| AF Management | |
| AF Suppression™ Pacing | On; Off |
| No. of Overdrive Pacing Cycles | 15–40 |
| Maximum AF Suppression Rate | 80–150 min ⁻¹ |
| Sensing/Detection | |
| SenseAbility™ Sensing Algorithm | Automatic Sensitivity Control adjustment for atrial and ventricular events |
| Low Frequency Attenuation | On; Off |
| Threshold Start | Post-Sensed: 50; 62,5; 75; 100%; Post-Paced, Atrial: 0,2–3,0 mV Post-Paced, Ventricular: Auto, 0,2–3,0 mV |
| Decay Delay | Post-Sensed: 0–220 ms Post-Paced, Atrial: 0–220 ms Post-Paced, Ventricular: Auto, 0–220 ms |
| Ventricular Sense Refractory | 125; 157 ms |
| Detection Zones | 3 zone programming — 1 zone, 2 zones or 3 zones (VT-1, VT-2, VF) |
| SVT Discriminators | AV Rate Branch; Arrhythmia Onset (Chamber Onset or Sudden Onset); Interval Stability; AV Association; Morphology Discrimination (Far Field MD™ Morphology Discrimination or Original MD) with Automatic Template Update |
| Monitor Mode | Detection, discrimination and diagnostics, no therapy delivery (VT or VT-1 zone) |
| Discrimination Modes | On; Passive; Off |
| SVT Upper Limit | 150–240 min ⁻¹ |
| SVT Discrimination Timeout | 20s - 60 min; Off |
| Reconfirmation | Continuous sensing during charging |
| SecureSense™ RV Lead Noise Discrimination Algorithm | On; On with Timeout; Passive; Off |
| VF Therapy Assurance | On; Off |

Antitachycardia Pacing Therapy

| | |
|-------------------------|---|
| ATP Configurations | Ramp; Burst; Scan; 1 or 2 schemes per VT zone |
| ATP in VF Zone | ATP While Charging; ATP Prior to Charging; Off |
| ATP Upper Rate Cutoff | 150–300 min ⁻¹ |
| Burst Cycle Length | Adaptive (50%-100%); Fixed (200–550 ms) |
| Min. Burst Cycle Length | 150–400 ms |
| Readaptive | On; Off |
| Number of Bursts | 1–15 |
| Number of Stimuli | 2–20 |
| Add Stimuli per Burst | On; Off |
| ATP Pulse Amplitude | 7,5 V independent from Bradycardia and Post-Therapy Pacing |
| ATP Pulse Width | 1,0 or 1,5 ms independently programmable from Bradycardia and Post-Therapy Pacing |

High-Voltage Therapy

| | |
|---|---|
| DynamicTx™ Over-Current Detection Algorithm | On; Off |
| DeFT Response™ Technology | Programmable pulse width for P1/P2 and tilt |
| High-Voltage Output Mode | Fixed Pulse Width; Fixed Tilt |
| Waveform | Biphasic; Monophasic |
| RV Polarity | Cathode (-); Anode (+) |
| Electrode Configuration | RV to Can; RV to SVC/Can; RV to SVC |

Bradycardia Pacing

| | |
|--|--|
| Permanent Modes | Off; DDD(R); DDI(R); VVI(R); AAI(R) |
| Temporary Modes | Off; DDD; DDI; VVI; AAI; AAT; DOO; VOO; AOO |
| Activity Sensor | On; Passive; Off |
| Programmable Rate and Delay Parameters | Base Rate (min ⁻¹); Rest Rate (min ⁻¹); Maximum Tracking Rate (min ⁻¹); Maximum Sensor Rate (min ⁻¹); Paced AV Delay (ms); Sensed AV Delay (ms); Rate Responsive AV Delay; Hysteresis Rate (min ⁻¹); Rate Hysteresis with Search |
| Pulse Amplitude | 0,25 - 7,5 V |
| Pulse Width | 0,05 ms, 0,1 - 1,5 ms |
| Ventricular AutoCapture™ Pacing System | On; Off |
| ACap™ Confirm Feature | On; Monitor; Off |
| QuickOpt™ Timing Cycle Optimization | Sensed/Paced AV delay |
| Auto Mode Switch (AMS) | DDI(R); VVI(R); Off |
| Atrial Tachycardia Detection Rate | 110–300 min ⁻¹ |
| AMS Base Rate | 40; 45; ... 135 min ⁻¹ |
| Rate Responsive PVARP | Low; Medium; High; Off |
| Rate Responsive V Pace Refractory | On; Off |

Abbott

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Brief Summary: This product is intended for use by or under the direction of a Physician. Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use.

™ Indicates a trademark of the Abbott group of companies.

‡ Indicates a third-party trademark, which is property of its respective owner.

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MAT-2003085, MAT-2003287, MAT-2003293, MAT-2006938 | Item approved for Hong Kong, India, Indonesia, Korea and Singapore use only.

| | |
|---|---------------------------|
| PAC Response | On; Off |
| PAC Response Interval | 200–400 ms |
| PMT Detection/Termination | Atrial Pace; Passive; Off |
| Ventricular Intrinsic Preference (VIP™) | On (50–200 ms); Off |

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

| | |
|----------------------------|-------------------------------------|
| Post-Shock Pacing Mode | AAI; VVI; DDI; DDD; Off |
| Post-Shock Base Rate | 30–100 min ⁻¹ |
| Post-Shock Pacing Duration | 0,5; 1; 2,5; 5; 7,5; or 10 min; Off |

Device Testing/Induction Methods

| | |
|---|---|
| DC Fibber™ Induction Method | 0,5–5,0 sec |
| Pulse Duration | |
| Burst Fibber Cycle Length | 20–100 ms |
| Noninvasive Programmed Stimulation (NIPS) | 2–25 stimuli with up to three extra stimuli |

Patient Notifiers

| | |
|---|---|
| Programmable Notifiers (On; Off) | BatteryAssurance™ alert, Possible HV circuit damage, HV charge timeout, Long charge time for Capacitor Maintenance, Device at ERI, 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 |
| Device Parameter Reset | On |
| Entry into Backup VVI Mode | On |
| Auditory Duration | 2; 4; 6; 8; 10; 12; 14; 16 sec |
| Number of Audio alerts per Notification | 2 |
| Number of Notifications | 1–16 |
| Time Between Notifications | 10; 22 hours |

Electrograms and Diagnostics

| | |
|---|--|
| Stored Electrograms | 30 minutes (2 user programmable + discrimination channel), up to one minute programmable pre-trigger data per VT/VF electrograms; 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 | Diagram of therapies delivered |
| Episodes Summary | Directory listing of up to 60 episodes with access to more details including stored electrograms |
| Lifetime Diagnostics | History of bradycardia events and device-initiated charging |
| AT/AF Burden Trend | Trend data and counts |
| Ventricular HV Lead Impedance Histograms and Trends | Multi-Vector Trend Data Event Histogram; AV Interval Histogram; Mode Switch or AT/AF Duration Histogram; Peak Filtered Atrial Rate during atrial arrhythmia Histogram; Atrial Heart Rate Histogram; Ventricular Heart Rate Histogram; AT/AF Burden; Exercise and Activity Trending; V Rates during AMS; DirectTrend™ reports up to 1 year |

| | |
|--|---|
| PMT Data | Information regarding PMT detections |
| Real-Time Measurements (RTM) | Pacing lead impedances; high-voltage lead impedances; and signal amplitudes |
| CorVue Congestion Monitoring | On; Off |
| CorVue Congestion Monitoring Threshold | 8–18 days |

MRI Settings

| | |
|-------------------------|----------------------------|
| Tachy Therapy | Disabled |
| MRI Mode | DOO; VOO; AOO; Pacing Off |
| MRI Base Rate | 30–100 min ⁻¹ |
| MRI Paced AV Delay | 25–120 ms |
| MRI Pulse Amplitude | 5,0 or 7,5 V |
| MRI Pulse Width | 1,0 ms |
| MRI Pulse Configuration | Bipolar |
| MRI Timeout | Off; 3; 6; 9; 12; 24 hours |

MRI Scan Parameters†

| LEAD MODEL | MAGNET (TESLA) | RF TRANSMIT CONDITIONS | SCAN REGION |
|------------------------------------|----------------|------------------------|-------------|
| Durata™ Defibrillation Lead | | | |
| 7120Q (lead lengths: 58, 65 cm) | 1,5T / 3T | Normal Operating Mode | Full-body |
| 7122Q (lead lengths: 58, 65 cm) | | | |
| Optisure™ Lead | | | |
| LDA220Q (lead lengths: 58, 65 cm) | 1,5T / 3T | Normal Operating Mode | Full-body |
| LDA210Q (lead lengths: 58, 65 cm) | | | |
| Tendril™ STS Pacing Lead | | | |
| 2088TC (lead lengths: 46, 52 cm) | 1,5T / 3T | | |
| Tendril MRI™ Lead | | | |
| LPAL200M (lead lengths: 46, 52 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.

