

Entrant™ Single Chamber ICD

CDVRA300Q



Compatible with myMerlinPulse™ app

Product Highlights

- Bluetooth® Low Energy (LE) communication enabling smartphone connectivity through data encryption
- 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 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 is designed to 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 an MR Conditional lead 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
- DF-4 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
- Dual patient notification: audio notification through the device and visual notification via myMerlinPulse™ app
- The CorVue™ thoracic impedance monitoring feature measures transthoracic impedance changes over time to provide additional insight into the patient's heart failure condition

Ordering Information

Contents: Cardiac Pulse Generator

| MODEL NUMBER | DIMENSIONS (L x W x H) (MM) | WEIGHT (G) | VOLUME (CC) | CONNECTOR DEFIBRILLATION | CONNECTOR SENSE/PACE |
|--------------|-----------------------------|------------|-------------|--------------------------|----------------------|
| CDVRA300Q | 63 x 51 x 12 | 74 | 30 | DF-4 | DF-4 |

*See MRI Scan Parameters in MRI Ready Systems manual.



Product Specifications

| PARAMETER SPECIFICATIONS | |
|---|---|
| Model | CDVRA300Q |
| Telemetry | Bluetooth® LE Communication |
| Delivered/Stored Energy | 36/39 J |
| Volume | 30 cc |
| Weight | 74 g |
| Size | 63 × 51 × 12 mm |
| Defibrillation Lead Connections | DF-4 |
| Sense/Pace Lead Connections | DF-4 |
| High-Voltage Can | Electrically active titanium can |
| Parameter | Settings |
| Sensing/Detection | |
| SenseAbility™ Sensing Algorithm | Automatic Sensitivity Control adjustment for ventricular events |
| Low Frequency Attenuation | On; Off |
| Threshold Start | Post-Sensed: 50; 62.5; 75; 100% Post-Paced: Auto; 0.2-3.0 mV |
| Decay Delay | Post-Sensed: 0-220 ms Post-Paced: 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 | Sudden Onset, Interval Stability; Sinus Interval History; Morphology Discrimination (Far Field MD™ or Original MD) with Automatic Template Update |
| Discrimination Modes | On; Passive; Off |
| SVT Upper Limit | 250-585 ms; Same as VT-2; Same as VF; Off |
| SVT Discrimination Timeout | 20s-60 min; Off |
| Monitor Mode | Detection; discrimination; and diagnostics; no therapy delivery (VT or VT-1 zone) |
| 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 bpm |
| Burst Cycle Length | Adaptive (50%-100%); Fixed (200-550 ms) |
| Min. Burst Cycle Length | 150-400 in increments of 5 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 |

Product Specifications

| Parameter | Settings |
|--|---|
| Bradycardia Pacing | |
| Permanent Modes | VVI(R); Off |
| Temporary Modes | VVI; VOO; Off |
| Activity Sensor | On; Passive; Off |
| Programmable Rate Parameters | Base Rate (bpm); Rest Rate (bpm); Maximum Sensor Rate (bpm); Pulse Amplitude (RV) (V); Pulse Width (RV) (ms); Hysteresis Rate (bpm); Rate Hysteresis with Search |
| Pulse Amplitude | 0.25-7.5 V |
| Pulse Width | 0.05, 0.1-1.5 ms |
| Ventricular AutoCapture™ Pacing System | On; Off |
| Rate Responsive V Pace Refractory | On; Off |
| Post-Therapy Pacing (Independently programmable from Bradycardia and ATP) | |
| Post-Shock Pacing Mode | VVI; Off |
| Post-Shock Base Rate | 30-100 in increments of 5 bpm |
| Post-Shock Pacing Duration | 0.5; 1; 2.5; 5; 7.5; or 10 min; Off |
| Device Testing/Induction Methods | |
| DC Fibber™ Induction Method Pulse Duration | 0.5-5.0 sec |
| Burst Fibber Cycle Length | 20-100 ms |
| Noninvasive Programmed Stimulation (NIPS) | 2-25 stimuli with up to 3 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; Ventricular pacing lead impedance out of range; High-voltage lead impedance out of range; SecureSense™ lead noise detection; Non-sustained ventricular oversensing; Ventricular pacing percentage greater than limit |
| 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 | Up to 15 minutes (1 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; 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 |
| Trends | HV lead impedance; Ventricular pacing lead impedance; Ventricular signal amplitude; Ventricular capture threshold; Exercise and Activity trending; DirectTrend™ reports up to 1 year |
| Histograms | Event Histogram; Ventricular Heart Rate Histogram |
| Real-Time Measurements (RTM) | Pacing lead impedances; High-voltage lead impedances; and Signal amplitudes |
| CorVue™ Thoracic Impedance | On; Off |
| CorVue Thoracic Impedance Threshold | 8-18 days |

Product Specifications

| Parameter | Settings |
|-------------------------|----------------------------|
| MRI Settings | |
| Tachy Therapy | Disabled |
| MRI Mode | VOO; Pacing Off |
| MRI Base Rate | 30-100 bpm |
| MRI Pulse Amplitude | 5.0 or 7.5 V |
| MRI Pulse Width | 1.0 ms |
| MRI Pulse Configuration | Bipolar |
| MRI Timeout | 3; 6; 9; 12; 24 hours; Off |

| MRI SCAN PARAMETERS* | | | |
|------------------------------------|----------------|-----------------------------|-------------|
| Lead Model | Magnet (Tesla) | RF Transmit Conditions | Scan Region |
| Durata™ Defibrillation Lead | 1.5 T / 3 T | Normal Operating Mode | Full-body |
| 7120Q (lead lengths: 60, 65 cm) | | | |
| 7122Q (lead lengths: 60, 65 cm) | | | |
| Optisure™ Lead | 1.5 T / 3 T | Normal Operating Mode | Full-body |
| LDA220Q (lead lengths: 60, 65cm) | | | |
| LDA210Q (lead lengths: 60, 65 cm) | | | |

*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 manuals.cifu.abbott.

Brief Summary: 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.

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