Gallant[™] Single Chamber ICD

CDVRA500T

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 highvoltage 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

• Sense*Ability*[™] sensing algorithm feature provides the flexibility to fine-tune programming around T-wave oversensing without decreasing sensitivity

MR

Compatible with myMerlinPulse[™] app

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- 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*
- Cold can programmability provides an additional RV-SVC Shock Configuration to decouple the can from the shocking vector parameters
- The CorVue[™] thoracic impedance feature measures transthoracic impedance changes over time to provide additional insight into the patient's heart failure condition
- Dual patient notification: audio notification through the device and visual notification via myMerlinPulse app

Ordering Information

Contents: Cardiac Pulse Generator

MODEL NUMBER	DIMENSIONS (L × W × H) (MM)	WEIGHT (G)	VOLUME (CC)	CONNECTOR DEFIBRILLATION	CONNECTOR SENSE/PACE
CDVRA500T	$73 \times 51 \times 12$	72	35	DF-1	IS-1

*See MRI Scan Parameters in MRI-Ready Systems Manual



Product Specifications

PARAMETER SPECIFICATIONS				
Model	CDVRA500T			
Telemetry	Bluetooth* LE Communication			
Delivered/Stored Energy	40/45 J			
Volume	35 cc			
Weight	72 g			
Size	$73 \times 51 \times 12 \text{ mm}$			
Defibrillation Lead Connections	DF-1			
Ventricular Sense/Pace Lead Connections	IS-1 in-line bipolar			
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	150-240 bpm			
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	Polarity Cathode (-); Anode (+)			

Electrode Configuration	RV to Can; RV to SVC/Can; RV to SVC		
Bradycardia Pacing			
Permanent Modes	Off; VVI(R)		
Temporary Modes	Off; VVI; VOO		
Activity Sensor	On; Passive; Off		
Programmable Rate Parameters	Base Rate (bpm); Rest Rate (bpm); Maximum Sensor Rate (bpm); 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 p	rogrammable from Bradycardia and ATP)		
Post-Shock Pacing Mode	Off; VVI		
Post-Shock Base Rate	30-100 in increments of 5 bpm		
Post-Shock Pacing Duration	Off; 0.5; 1; 2.5; 5; 7.5; or 10 min		
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		
Fime Between Notifications	10; 22 hours		
Electrograms and Diagnostics			
Stored Electrograms	30 minutes (1 user programmable + discrimination channel), up to 1 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

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	Off; 3; 6; 9; 12; 24 hours

MRI SCAN PARAMETERS'					
Lead Model	Magnet (Tesla) RF Transmit Conditions		Scan Region		
Durata [™] Defibrillation Lead		Normal Operating Mode	Full-body		
7120 (lead lengths: 60, 65 cm)	1.5 T / 3 T				
7122 (lead lengths: 60, 65 cm)					
Optisure [™] Lead					
LDA220 (lead lengths: 60, 65cm)	1.5 T / 3 T				
LDA210 (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 medical.abbott/manuals.

Rx Only

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.

Intended Use: The Implantable Cardioverter Defibrillator (ICD) devices are intended to provide ventricular antitachycardia pacing and ventricular cardioversion/defibrillation.

The myMerlinPulse" mobile application is intended for use by people who have an Abbott Medical implanted heart device and access to a mobile device. The app provides remote monitoring capability of the implanted heart device by transmitting information from the patient's implanted heart device to the patient's healthcare provider.

Indications: The ICD devices are indicated for automated treatment of life-threatening ventricular arrhythmias.

In addition, dual chamber ICD devices with the AT/AF detection algorithm are indicated in patients with atrial tachyarrhythmias or those patients who are at significant risk of developing atrial tachyarrhythmias.

MR Conditional ICDs are conditionally safe for use in the MRI environment when used in a complete MR Conditional system and according to instructions in the MRI-Ready Systems manual. Scanning under different conditions may result in severe patient injury, death or device malfunction

The myMerlinPulse[™] mobile application is indicated for use by patients with supported Abbott Medical implanted heart devices.

Contraindications: Contraindications for use of the pulse generator system include ventricular tachyarrhythmias resulting from transient or correctable factors such as drug toxicity, electrolyte imbalance, or acute myocardial infarction.

The myMerlinPulse" mobile application is contraindicated for use with any implanted medical device other than supported Abbott Medical implanted heart devices.

Adverse Events: Possible adverse events associated with the implantation of the pulse generator system include the following: Arrhythmia (for example, accelerated or induced), Bradycardia, Cardiac or venous perforation, Cardiac tamponade, Cardiogenic shock, Death, Discomfort, Embolism, Endocarditis, Erosion, Exacerbation of heart failure, Excessive fibrotic tissue growth, Extracardiac stimulation (phrenic nerve, diaphragm, pectoral muscle),

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Extrusion, Fluid accumulation within the device pocket, Formation of hematomas, cysts, or seromas, Heart block, Hemorrhage, Hemothorax, Hypersensitivity, including local tissue reaction or allergic reaction, Infection, Keloid formation, Myocardial damage, Nerve damage, Occlusion/Thrombus, Pericardial effusion, Pericarditis, Pneumothorax, Pulmonary edema, Syncope, Thrombosis, Valve damage. Complications reported with direct subclavian venipuncture include pneumothorax, hemothorax, laceration of the subclavian artery, arteriovenous fistula, neural damage, thoracic duct injury, cannulation of other vessels massive hemorrhage and rarely, death. Among the psychological effects of device implantation are imagined pulsing, depression, dependency, fear of prenature battery depletion, device malfunction, inappropriate pulsing, shocking while conscious, or losing pulse capability. Possible adverse device effects include complications due to the following: , Abnormal battery depletion, Conductor fracture, Device-programmer communication failure, Elevated or rise in defibrillation/cardioversion threshold, Inability to defibrillate or pace, Inability to interrogate or program due to programmer or device malfunction, Incomplete lead connection with pulse generator, Inhibited therapy including defibrillation and pacing, Inappropriate therapy (for example, shocks and antitachycardia pacing [ATP] where applicable, pacing), Interruption of function due to electrical or magnetic interference, Intolerance to high rate pacing (for example dyspnea or discomfort), Lead abrasion, Lead fracture, Lead insulation damage, Lead migration or lead dislodgement, Loss of device functionality due to component failure, Pulse generator for the data data data with the implantation of a coronary venous lead system include adverse events associated with the implantation of a coronary venous lead system include the following: Allergic reaction to contrast media, Breakage or failure of implant instruments, Prolonged exposure to fluoroscopic radiation, Renal failure from contrast media used to visualize coronary veins. Refer to the User's Manual for detailed intended use, indications, contraindications, warnings, precautions and potential adverse events

No potential adverse events have been identified with use of the myMerlinPulse[™] mobile application.

